FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

[The MINING JOURNAL is Registered at the General Post Office as a Newspaper, and for Transmission Abroad]

No. 2308.—Vol. XLIX.

LONDON, SATURDAY, NOVEMBER 15, 1879.

SUPPLEMENT. PRICE SIXPENCE.

MR JAMES H. CROFTS, STOCK AND SHARE BROKER, AND MINING SHARE DEALER, No. 1, FINCH LANE, CORNHILL, LONDON, E.C. ESTABLISHED 1842.

BUSINESS transacted in all descriptions of MINING Stocks and Shares (British and Foreign), Consols, Banks, Bonds (Foreign and Colonial), Rall-ways, Insurance, Assurance, Telegraph, Tramway, Shipping, Canal, Gas, Water, and Dock Shares, and all Miscellaneous Shares.

Business negociated in Stocks and Shares not having a general market value. value.

Every Friday a general and reliable List issued (a copy of which will be forwarded regularly on application), containing closing prices of the week.

MINES INSPECTED.

BANKERS: CITY BANK, LONDON—SOUTH CORNWALL BANK, ST. AUSTELL.

SPECIAL DEALINGS in the following, or part:-

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| SPECIAL DEALINGS in the following, or part:—|
30 Assheton, 22s.	25 Eberhardt, £2 1s. 3d.	20 Panulci
50 Almada, 7s. 3d.	50 Flagstaff, 32s.	100 Pestare
50 Glanch Gold.	10 Frontino, £2½.	50 Parys C
50 Glorentina.	25 Herodsfoot, £2½.	20 South 1
50 East Oardon, £3 1s. 3	100 Killifreth, 12s. 6d.	20 Note C
50 East Corell, £2½.	25 Leadhills, £4.	25 West A
50 East Roman Gravels.	10 Mineral Corporation.	20 West C
50 Parys C	20 South 1	
50 Parys C	20 South 1	
50 East Roman Gravels.	20 Morfa Du, 18s.	
50 Pandora, 13s.	20 West C	
50 Parys C	20 South 1	
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50 Parys C	20 20 Panulcillo, £4 3s. 9d.	
100 Pestarena, 8s. 3d.
50 Parys Corporat., 17s 3d
20 Richmond, £9\\(\frac{4}{2}\).
20 South Darren, £2\\(\frac{4}{2}\).
20 Tankerville, £5\\(\frac{4}{2}\).
10 Van, £22.
25 West Assheton, £2\\(\frac{4}{2}\).
20 West Chiverton, £5.
20 Wheal Crebor, £5 13 9

, SHARES SOLD FOR FORWARD DELIVERY (ONE, TWO, OR THREE MONTHS)
ON DEPOSIT OF TWENTY PER CENT. RAILWAYS—SPECIAL BUSINESS. FOREIGN BONDS—SPECIAL BUSINESS.

Fortnightly accounts opened on receipt of the usual cover. JAMES H. CROFTS, 1, FINCH LANE, LONDON. ESTABLISHED 1842.

MR. W. H. BUMPUS, STOCK AND SHARE BROKER, 44, THREADNEEDLE STREET, LONDON, E.C.

ESTABLISHED 1867. BUSINESS transacted in STOCK EXCHANGE SECURITIES and MISCELLANEOUS SHARES of every description.

RAILWAYS, BANKS, FOREIGN and COLONIAL BONDS.

TRAMWAYS, TELEGRAPHS, and all the LEADING INVESTMENTS, Accounts opened for the Fortnightly Settlement
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MR. BUMPUS has SPECIAL BUSINESS in the undermentioned :-Almada, 7s. Assheton, 22s.

40 Assheton, 22s.
100 Bodidris.
101 Bodidris.
20 Blue Tent, £2.
50 Colorado, 38s.
50 Cane Copper, £31%.
50 Caned Goldris.
50 Caned Goldris.
50 Drakewalls.
51 Devon Consols.
52 Devon Consols.
54 Devon Consols.
55 Less Pool, £21.
50 East Coradon, £3%.
50 East Coradon, £3%.
51 East Coradon, £3%.
52 East Coradon, £3%.
53 East Coradon, £3%.
53 East Lovell, £2 11s 3d.

IAL BUSINESS in the und 25 Eberhardt, £3 is. 3d, 50 East Crebor. 10 East Chiverton, £2¼. 20 East Yan, £2½. 50 Flagstaff, 30s. 5d. 30 Frontino, £2½. 10 Great Laxey, £18%. 25 Great Holway. 50 Gawton. 25 Gunnislake (Clitters), £2½. 25 Gunnislake (Clitter £2½. 50 Hingston, 10s. 6d. 30 Herodsfoot, £2½. 70 Killifreth, 13s. 6d. 15 Leadhills, £4. 25 Marke Valley, 29s. 10 Mellanear, £4½.

dermentioned:—
20 New Quebrada, £3½.
50 Nouveau Monde, 19s.
40 Pateley Bridge, 16s.
50 Peatarena, £6.
61.
62 Parys Copper, 16s.
63 Parys Copper, 15s.
63 Roby, £3½.
64 Bouth Crebor.
65 Van, £22½.
65 Wheal Grenville, £5½.
65 Wheal Grenville, £5½.
65 Wheal Peevor.
65 Wan £22½.

IMPORTANT TO INVESTORS.

Large profits may be realised by the purchase of SHARES in SOUND wellselected MINES at present prices. Many of these are likely to advance considerably in market value during the next few months.

Mr. Bumpus devotes special attention to these Securities, and is in a position
to afford reliable information and advice to intending investors and others.

The following Mines are particularly recommended:—Wheal Pcevor, Wheal
Grenville, Wheal Jane, West Pcevor, Wheal Kitty, Drakewalls, East Lovell, Killifteth, East Caradon, Gunnislake (Clitters), Marke Valley, Derwent, East Chiverton, South Darren, Great Holway, West Assheton, and Panulcillo.

SPECIAL BILLINESS, at close prices, in the SHARES of all the principal

SPECIAL BUSINESS, at close prices, in the SHARES of all the principal HOME and FOREIGN MINES.

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ESTABLISHED 1869.—BANKERS: ALLIANCE.

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THE CREBOR DISTRICT.—Having our own independent agents we can furnish reliable information respecting mining properties in this neighbourhood n our usual terms.

TAMAR MINE —This mine is in the same district as Crebor, and shares should

BODIDERS MINE.—Splendid specimens of ore from the Mass-y-pwll lode, just received, may be seen at our office.
Full particulars on application to—
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(r. BUDGE has SPECIAL DEALINGS in—Bedford United, \$8.9d 100 Fingstaff, 32s. 6d. 100 Pestarena, \$s.6 Bodidris. 70 Gawton, 12s. 6d. 130 Parys Copper, 1 Chapel House. 50 Grays Brewery. 35 Fandors, 19s. 6d. 26 Pennant. 600 Higgston Down. 70 Sentein. 100 Marke Vailey, 28s. 9d. 20 West Assheton, East Crabor. 20 North Deresby. 20s. 2 West Ston, £82 East Crabor. 20 North Treskerby. 20s. 100 West Ston, 19s. 100 West Ston 100 Pestarena, 8s. 6d. 130 Parys Copper, 17s. 6d. 35 Pandora, 19s. 80 Bedford United, a 10 Bodidris. 80 Chapel House. 10 Carn Bres. 258%. 25 Cook's Kitchen, a 100 Devonport and T 100 Carn Brea, £58½.

150 Gold Bun, 2s. 6d.

150 South Brances, £11½.

150 South Brances, £11½.

150 Sentein.

150 Sentein.

150 Gold Bun, 2s. 6d.

150 South Darren, £213s9

150 Sentein.

150 Sentein.

150 Gold Bun, 2s. 6d.

150 South Darren, £213s9

150 Sentein.

150 West Assheton, 1 16 6

150 East Van, £2½.

150 North D'Eresby, 2os.

150 West Assheton, 1 16 6

150 East Van, £2½.

150 West Assheton, 1 16 6

150 East Van, £2½.

150 West Assheton, 1 16 6

150 East Van, £2½.

150 West Assheton of the short of the Pennant. South Frances, £11½. South Darren, £21389 Sentein.

NOTICE OF REMOVAL.

PETER WATSON'S OFFICES will be, on and after MONDAY next, at-AUSTIN FRIARS, OLD BROAD STREET,

LONDON, E.C.,
Being larger and much more convenient Offices than at— 54, OLD BROAD STEEET.

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SHAREHOLDERS and INVESTORS desirous of PURCHASING or SELLING SHARES in COPPER, TIN, LEAD, GOLD, or SILVER MINES can do so at MARKET PRICES, and obtain INFORMATION regarding the same on PERSONAL APPLICATION, or BY LETTER, of—
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(Late of 54, OLD BROAD STREET,)

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TELEGRAPHIC MESSAGES PUNCTUALLY ATTENDED TO.

STOCK AND SHARE MARKETS. Prices of STOCKS and SHARES in RAILWAYS, BANKS, ENGLISH and FOREIGN GOVERNMENT SECURITIES, GAS, MINES, INSURANCE, and other Stock Exchange Securities, and various important information

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UNITED STATES AND COLONIAL MINES.

IMPORTANT INFORMATION REGARDING THE ABOVE. RUYER and SELLER of SHARES at the close Market Price of the day.

SHAREHOLDERS and INVESTORS may rely on all business being punctually and faithfully carried out.

A DAILY LIST OF PRICES sent (free) on application, either personally BANKERS: THE ALLIANCE BANK (Limited).

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Investors following Mr. Cooke's advice have made LARGE SUMS of MONEY.

LOW PRICED LEAD SHARES should NOW be PURCHASED. Lead will probably advance many pounds per ton. There is no cheaper LEAD SHARE to be bought than

NORTH D'ERESBY MOUNTAIN, at 20s. fully paid.

Mr. Cooke has recently visited the Mine, and NEVER SAW IT LOOKING SO VALUABLE. Specimens from the workings can be seen at his offices.

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STOCK EXCHANGE BUSINESS DONE ON BEST TERMS.

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DEALER at NET PRICES in EVERY DESCRIPTION of STOCKS & SHARES,
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The BEST and CHEAPEST INVESTMENT now before the Public.
Copy of Reports of Special Surveys by several eminent Mining Engineers may be had on application to the UNDERSIGNED, who invite enquiry, and confidently recommend the PURCHASE OF SHARES at par—£1 each, fully paid.

BRITISH and FOREIGN MINES and all other negociable SECURITIES BOUGHT and SOLD at net prices free of commission.

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MR. CHARLES POWELL, 11, WARNFORD COURT, shares at £1 to £1 10s. This is the adjoining mine, and on the identical rich lodes as Wheal Crebor, the shares in which have advanced from 5s. to over £5, in four months. It is not generally known that East Crebor has produced some of the richest yellow copper ore in England, one parcel of which realised the high price of £25 15s. per ton.

Mr. Powell has business in EAST CREBOR shares as buyer or seller at the shows quotations.

TO INVESTORS.

CREBOR AND EAST CREBOR MINES.—

These shares should be bought for permanent investment. Large reserves of ore are being opened up in the former, and the lately discovered new lode, with an aggregate value of nearly £250 per fathom for five points of operation. passes into the adjoining Mine—East Crebor. Large purchases of East Crebor Shares have been made during the week—at present prices, 25s, to 27s. 6d.—and they are especially recommended for a speedy rise in price.

Particulars and plans of J. Scorr and Co., Palmerston Buildings, Old Broadstreet, E.C.

M R. JOUNL. M. FR (Fourteen Years at the Great Miners Mines) FRASER. CONSULTING MINING ENGINEER—SECRETARY AND AUDITOR—ROYALTY AND MINERAL ESTATE AGENT—SHARE DEALER—MINES, AND MACHINERY BROKER— GREENFIELD HOUSE, WREXHAM

M R. D A V I D C O W A N, CONSULTING MINING AND MECHANICAL ENGINEER, AND LICENSED VALUATOR, 58, RENFIELD STREET, GLASGOW.

Investigations, Reports, and Valuations made of Coal, Iron, Slate, Pyrites, and other properties at home and abroad. Enquiries for Road and Railway Materials, Mining Plant, Pipes, Castings, &c. Plans, &c., of the most modern and economical mining appliances, fittings, and arrangements.

I have been long acquainted with the principal Coal and Iron Works in the North, with the Slate Quarries in North Wales, and for many years was Chief Engineer of the Tharsis Mines, Works, and Railway in Spain.

THE "DIFFERENTIAL" PUMPING ENGINE (DAVEY'S PATENT),

DRAINING MINES, WATER SUPPLY OF TOWNS, IRRIGATION, SUPPLYING DOCKS, PUMPING SEWAGE, and GENERAL PUMPING PURPOSES

HATHORN, DAVEY, AND CO., LEEDS.

HATHORN, DAVEY, and Co. have Patterns of "Differential" Engines of all sizes, from 5 to 500-horse power, and have facilities for supplying very powerful Engines and Pumps at a short notice.

See Illustrated Advertisement every alternate week,

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M R. A L F R E D T H O M A S, MINING AGENT, AND STOCK AND SHARE DEALER, 10, COLEMAN STREET, LONDON, E.C.

"HOW TO TAKE ADVANTAGE OF THE COMING RISE IN PRICES," By Alfred Thomas, 10, Coleman-street, E.C. Will be forwarded to Investors upon application.

ALFRED TROMAS is a BUYER of the following SHARES:—
0 Lisburne.
200 Chapel House Colliery 100 East Caradon.
0 Roman Gravels.
100 Assheton.
15 Van.
50 West Assheton.
Sellers will please state lowest prices. 10 Lisburne. 20 Roman Gravels. 100 Leadhills.

MR. EDWARD ASHMEAD, 62, CORNHILL, LONDON. LONDON MINE AGENT, ACCOUNTANT, AND AUDITOR.

TO INVESTORS, SHAREHOLDERS, TRUSTEES. TO INVESTORS, SHAREHOLDERS, TRUSTEES.

SAFE DIVIDEND INVESTMENTS PAYING 4 TO 6 AND 10 PER CENT.

SHARE PER ANNUM ON PRESENT OUTLAY,

IN V E S T M E N T C I R C U L A R

The NOVEMBER EDITION (post free),

SHOULD BE CONSULTED BY INVESTORS AND SHAREHOLDERS.

It is a Reliable "Guide," giving valuable information and Sound Advice, &c., It gives Market prices; Dividends upon outlay, when payable; Reports, &c., &c.

t gives Market prices; Dividends upon outlay, when payable; Reports, &c., &e.

IT CONTAINS ALL THE SAFE INVESTMENTS IN THE FOLLOWING:—

English, Foreign Railways.

Preference, Debenture Stocks.
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Bank, Financial Shares
Tramway, Telegraph Shares.
Municipal Bonds.

Municipal Bonds.

HENRY GOULD SHARP, STOCK AND SHARE BROKER, 42, POULTRY, LONDON, E.C.—ESTABLISHED 1852. BANKERS: LONDON AND WESTMINSTER, Lothbury, London, E.C.

TO INVESTORS.

Well worth Buying for a Rise of 100 to 200 per cent. and Dividends.

I advise my readers to secure 500 Shares, or any less number, without delay.

SOUTH DARREN (SILVER-LEAD) MINE, LIMITED, CARDIGANSHIRE, WALES,
In 9000 Shares of £1 10s. cach. Fully paid. Price £2 10s. to £2 15s. per share.

No further liability.

This valuable and profitable Silver-Lead Mine is situate in the rich mineral district of Cardiganshire (a district which has proved immensely profitable, and in which hundreds of thousands of pounds have been paid in dividends). It is provided with the most efficient machinery for carrying on the operations without interruption.

course of ore will also give a further impetus to value, and greatly increase their sales.

The agent states, Oct. 18, 1879: "I estimate the reserves in the mine at 1600 tons lead ore. This at £15 per ton would realise an amount of £25,600. The mine never looked better than at present, and the future prospects are most encouraging. Our next sampling will be 50 tons silver-lead ore. The 50 tons lead ore sold Oct. 31, 1879, to Sheldon, Bush, and Co., at £16 12s. 6d. per ton, realised £331 5s.

The shalt is down to required depth for 110 fathom level. The lode has improved to £28 per fathom.

In the 100 the lode is improving, now worth 2½ tons. In the winze below the 30 the lode when last taken down was worth 1½ ton per fathom.

SHARP'S INVESTMENT

The NOVEMBER EDITION (post free)
SHOULD BE CONSULTED BY INVESTORS AND SHAREHOLDERS. It is a Reliable "Guide," giving valuable information and Sound Advice, &c., It gives Market prices; Dividends upon outlay, when payable; Reports, &c., &c.

HENRY GOULD SHARP, STOCK AND SHARE BROKER, 42, POULTRY, LONDON, E.C.—ESTABLISHED 1852. BANKERS: LONDON AND WESTMINSTER, Lothbury, London, E.C.

MR. E. J. BARTLETT, BRITISH AND FOREIGN STOCK AND SHARE DEALER, NO. 30, GREAT ST. HELEN'S, LONDON, E.C. SPECIAL BUSINESS in EAST LOVELL and PEN-RY-ORSEDD. These shares should have a great rise.

JUST OUT,
"HOW TO INVEST," post free, One Shilling, Thirteenth Edition, enlarged.

MR. JOHN RISLEY, STOCK AND SHARE BROKER,
38, CORNHILL, LONDON, E.C.
ESTABLISHED 20 YEARS.
EAST CARADON, EAST CREBOR, and PARYS CORPORATION shares specially secommended.

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Reliable information on all fines obtained for "lients,

This day, crown 8vo., with numerous Wood Engravings, 12s. 6d., cloth (postage 7d.)

A TREATISE ON METALLIFEROUS MINERALS AND MINING,

By D C. DAVIES, F.G.S., Mining Engineer, &c.,

Author of "A Treatise on Slate and Slate Quarrying."

"This book is designed to describe, in a concise and systematic manner, the conditions under which metals and metallic ores are

This cook is designed to describe, in a concise and systematic manner, the conditions under which metals and metallic ores are found in the different countries of the world.

It is hoped that such a description will serve, first, to explain to some extent the origin of deposits of metalliferous minerals; and, secondly, by defining the zones occupied by the various metallic ores, to lessen somewhat the amount of unsuccessful search for them."—Extract from Preface.

CROSBY LOCKWOOD AND CO., 7, Stationers' Hall Court, London, E.C.

Lectures on Bractical Alining in Germany.

CLAUSTHAL MINING SCHOOL NOTES *-No. CXXXVI. BY J. CLARK JEFFERSON, A.R.S.M., WH. SC.,

Mining Engineer, Wakefield. (Formerly Student at the Royal Bergakademie, Clausthal.)
[The Author reserves the right of reproduction.]

METHODS OF WORKING WITHOUT ATTLE PACKING. PILLAR WORKING.

The following examples refer to pillar workings, in which the general direction of the stalls and the advance of the working away of the pillars is in the direction of the strike, and hence called

The following examples refer to pillar workings, in which the general direction of the stalls and the advance of the working away of the pillars is in the direction of the strike, and hence called "strike pillar workings."

The workings at the Sulzbach Colliery, near Duttweiler, are opened out by means of a drift from the hill side. Where the drift intersects the seam (which is about 32 in, thick and inclined at 45°) a level is driven right and left in the seam. At a short distance to one side of the drift a pair of ends are driven up on the full rise of the coal. The smaller of these, 5 to 6 ft. in width, is arranged as a travelling road for the miners, and as air road; the larger, which is 4½ yards in width, is fitted up as a self-acting inclined plane. These two ends are thirded every 16½ yards, the thirlings being continued right and left of the endings as levels, which are carried forward to the end of the division, a length of 450 to 500 yards. At a distance of 11 yards on each side of the pair of ends these levels are gradually widened to 5½ yards in width, thus leaving pillars 11 yards in width between the levels or stalls. According to this arrangement one-third of the coal is got in stall work. When the stalls have reached the boundary the pillars are worked back towards the endings, beginning with the uppermost pillar, the working away of each pillar preceeding somewhat that of the pillar next below, so that with this arrangement the working faces of the pillars follow each other in a step-like arrangement. Ten stalls are usually set off on each side of the pair of ends, so that the self-acting inclined plane has usually a length of 160 yards, which is rarely exceeded. The pillar between the level from the drift and the first stall is usually left intact to protect the main level. When driving the stalls it will be found necessary to thirl the pillars every 50 to 60 yards for the sake of ventilation. As the working out of these divisions approaches completion other endings are started off from the ma

metres to the rise of the first, or 25 metres to the rise of the main level. Since the stalls are generally driven double shift, whilst the jig-brows are driven single shift, the main level will have advanced so far that the third jig-brow can be started off at the same time in the second stall is started. If this arrangement is followed out there will be as many stalls started off as jig-brows, and vice versa. Each time a jig-brow intersects a stall the brake is removed 12½ metres higher up the brow. As soon as the second jig-brow has reached the boundary of the division to the rise the working way of the top pillar between the first and second jig-brow is commenced. When the third jig-brow has reached the boundary to the rise side the first pillar will be worked out, and the working away of the top pillar between the second and third jig-brows is commenced, simultaneously with the working away or the second pillar from the top between the first and second jig-brows. When these two pillars are worked out the fourth jig-brow will have reached the boundary to the rise side, and the working away of the top pillar between third and fourth jig-brows, the second pillar between the second and third jig-brows, and the third pillar between the first and second jig-brows, are commenced simultaneously. The coal is sent down the jig-brows in small corves, out of which it is emptied into larger ones in the main level. All the jig-brows are arranged for the full corf to pull up the empty one. As each pillar is worked out, the brake is removed 12½ metres further down the incline.

The same method is said to be employed for working at the Victoria Mathias Colliery, near Essen, with the distinction that the jig-brows are driven closer together (12 metres apart), so that square pillars are thus formed, and the necessity of driving the stalls double shift is avoided. The inclination of the seam at this colliery is only 60. At the Dukenfield Colliery, where the inclination of the seam is opened out by a series of levels, or rathe

ment is finished before the working away of the pillars commences. The pairs of brows only are fitted up as the jig-brows, the coal being transported along the stalls to the jig-brows. According to the ditransperted along the stalls to the jig-brows. According to the direction of the cleats of the coal the pillars are worked away in slices on the full dip of the seam, or of the whole width—8 yards—of the pillar is taken as the working face, which is worked backwards in the direction of the strike. The working away of the pillars follows in exactly the same order as described in the case of the Prosper Colliery.

Very similar to the above is the method of post and stall, prac-Very similar to the above is the method of post and stall, practised in the North of England. The seams, as we have before menmentioned, are comparatively flat, vary from 3 ft. to 6 ft. in thickness, with a very regular line of cleavage, of which, however, advantage is mostly taken in the case of hard coals, and the mines are liable to thrust and creep. The coal seam is reached by means of two shafts, one sunk somewhat to the dip of the other. Three main levels (two of which pass through the centre lines of the shafts) are driven in the seam on both sides of the shaft, so that, however, the centre level passes through the centre of the downcast or pulling shaft, and one of the others, passes through or close to the centre of the coater of the coate one of the others passes through or close to the centre of the upcast shaft. The middle level of these three serves as the main level for transport to the pit bottom, and also as the intake level, the other

* Being Notes on a Course of Lectures on Mining, delivered by Herr Bergrath Dr. Von Ghoddeck, Director of the Royal Bergakademie, Clausthal, The Hars, North Germany.

two outside levels serve as main return air roads to the upcast shaft. two outside levels serve as main return air roads to the upcast shaft. At a suitable distance from the pit bottom a pair of endings, or brows, will be put up on the full rise of the seam; one of the brows will be driven from the centre level, and the other will only be set off from the main return air road to the rise side. Where the brow from the main centre level, which is the one fitted up as a jig-brow, crosses the main return air road an air crossing will have to be put in over the jig-brow, which forms the intake for that division, or pannel. A second or third pair of brows will be put up from the main centre, or intake level, and the main return air level, at distances from the first rair of brows dependant on the length of the main centre, or intake level, and the main return air level, at distances from the first pair of brows dependant on the length of the panels. The jig-brow of each pair of brows will form the intake, and an air crossing put in over it where it is crossed by the main return air level. At some convenient distance from the pit bottom a pair of down brows will be driven from the main levels to the dip side of the main levels. The brow, which is fitted up as an engine plane serves as an intake, and is crossed at its intersection with the low main return air level by an air grossing; the other brow is only a pair of down brows will be driven from the main levels to the dip is de of the main levels. The brow, which is fitted up as an engine plane serves as an intake, and is crossed at its intersection with the low main return air level by an air crossing; the other brow is only started off from the low return air level. When these pair of down brows have advanced a sufficient distance (dependant on the height of the panels) a pair of levels are started off to the right and left. As suitable distances along these levels pairs of brows are set off to the rise to open out panels, one of each pair being fitted up as a jig-brow. The coal is transported along the pair of levels to the engine encline, forming one of the main pair of down brows. Should the dip boundary still be a considerable distance to the dip of this pair of levels, the main down brows are continued forward to the dip boundary, and a second or third pair of levels, as the case may require, are set off to the right and left, and panels opened out of these to the rise by means of a pair of brows. An air crossing will require, are set off to the right and left, and panels opened out of these to the rise by means of a pair of brows. An air crossing will be required for every pannel where the jig brow is crossed by the return air level. Similarly pannels are opened out to the rise of the levels by means of pairs of levels driven at suitable distances apart up a main pair of brows is set up as a main jig-brow to serve all the levels to the rise of the main pair of levels, and the separate pannels are started off from these rise levels by means of pairs of brows put up from these rise levels. So far our description refers to the general division of the mine into pannels, and the main roadways for transport and circulation of the sir. The opening out of each pannel for the formation of pillars is carried on in the following manner:—

Men the pair of brows have advanced from the levels a distance equal to the thickness of the pair of brows. The double sided arr

Each pannel is thus isolated from the rest of the mine by barriers of coal on all four sides, the barrier on the low side only being cut through by the pair of brows, by which alone access can be had from the panel to the rest of the mine. The ventilating current, which enters up the jig-brow, is caused to traverse along the first stall by means of brattice sheets or doors placed in the jig-brow between the first and second stalls, and sheets placed at the bottom of all endings except the last one. Sometimes sheets are also placed at the opposite ends of the stalls to drive the current well up to the face. When the pannel is one-sided the return air current descends down the back brow. When the pannel is double-sided the return air current must descend down the opposite side of the pannel. Brattice-sheets are then usually placed at the top of the endings to carry the currents well on the face. The working away of the pillars is commenced after all the pillars have been formed, the working away usually commencing at the top corner on the opposite side to the brow. When the inclination of the seam is very slight the working away of the pillars can be commenced on the low side of the pannel.

GEOLOGICAL SOCIETY OF LONDON. Nov. 5-HENRY CLIFTON SORBY, F.R.S. (President), in the chair.

Henry Bruce Armstrong, Savile-row, was elected a Fellow of the Society.——Syed Ali, B.A., Hyderabad, Deccan, India; Wynne Edwin Baxter, High-street, Lewes; Arthur Robert Boyle, Engineers' Office, Lime-street Station, Liverpool; Rev. John Lowry Carrick, M.A., Spring Hill, Southampton; Prof. Edward Waller Claypole, Antioch College, Yellow Springs, Ohio; Rev. T. Dowen, Newlands-terrace, Bootle, Liverpool; Rowland Gascoyne, Mexborough, near Rotherham; George M. Henty, Georgetown, Colorado; Henry Irwin Jenkinson, Keswick, Cumberland; John Marshall, F.R.A.S., Albionplace, Leeds; Josiah Martin, Three-Kings College, Auckland, New

kinson, Keswick, Cumberland; John Marshall, F.R.A.S., Albionplace, Leeds; Josiah Martin, Three-Kings College, Auckland, New Zealand; Charles Maxted, Providence Cottage, Well-road, Hampstead; Edward Provis, M.A., Worcester-street, Bromsgrove; Thomas Wm. Rumble, the Cottage, East Hill, Wandsworth; Rev. John Reuben Taft, St. George's, Wolverhampton; Octavius Albert Shrubsole, Reading; Samuel Richard Smyth, Blenheim-terrace, Old Trafford, Manchester; William Neish Walter, Hillpark-terrace, Newport, Fife; and Joseph Pepper Wright, Sunnybank-terrace, Undercliff-lane, Bradford, Yorkshire, were proposed as Fellows of the Society.—Edmund Knowles Binns, Heavygate-road, Sheffield; and J. Dawson, Somersetplace, Bath, will be balloted for as Fellows of the Society.

The following communications were read:—

1.—"On the probable Temperature of the Primordial Ocean of our

The following communications were read:—
1.—"On the probable Temperature of the Primordial Ocean of our Globe," by Robert Mallet, F.R.S., F.G.S.
2.—"On the Fish Remains found in the Cannel Coal in the Middle Coal Measures of the West Riding of Yorkshire, with the description of some new Species," by James W. Davis, F.G.S., &c. The remains described by the author were from a bed of Cannel coal about 400 ft. above the base of the Middle coal measures, and were chiefly obtained from this head at the Threlet Callier of the Middle Coal measures.

above the base of the Middle coal measures, and were chiefly obtained from this bed at the Tingley Colliery.

3.—"On the Skull of Argillornis longipennis, Owen," by Prof. R. Owen, C.B., F.R.S., F.G.S., &c.

The next meeting will be held on Wednesday, when the following communications will be read:—1. "Supplementary Note on the Ver-

tebræ of Ornithopsis, Seeley (=Eucamerotus, Hulke)," by J. W. Hulke, F.R.S., F.G.S.—2. "On the Concretionary Patches and Fragments of other Rocks sometimes contained in Granite," by John Arthur Phillips, F.G.S.—3. "Certain Geological facts witnessed in Natal and the Border Countries during nineteen years' residence," by Rev. G. Blencowe: communicated by the Rev. H. Griffith, F.G.S.

TECHNICAL EDUCATION IN CANADA.

TECHNICAL EDUCATION IN CANADA.

Reference was made at the time of its inauguration to the establishment of the Technological Institute of Halifax, Nova Scotia, and to the good results to be anticipated from it; and it is gratifying to find from the second annual announcement and calendar, just issued, that these anticipations have been fully realised. The object of the Institute being to provide instruction specially useful to persons desirous of qualifying themselves for engaging either as workmen, foremen, managers, or proprietors in the various mechanical, agricultural, mining, and chemical industries; its classes have been made available to many to whom, owing to the expense and time involved, a full collegiate course was out of the question, even had it been equally well adapted to their requirements, and hence it is that during the first year of its existence the Technological Institute can boast no less than 127 members, of whom 90 are gentlemen and 27 ladies—a number which in a comparatively small colonial community must be considered highly encouraging.

The office bearers are acknowledged to be men in whose hands any such institution would succeed if energy and perseverance could secure success; the presidency and vice-presidency being held by Drs. Lawson and Somers respectively, whilst the more laborious and important office of secretary and treasurer is filled by the Rev. Dr. Honeyman. The faculty of instructors is undoubtedly a strong one, the president teaching Agricultural Chemistry and Botany, and the vice-president Zoology; Mr. Fraser, the Government Analyst, acting as Demonstrator in Industrial Chemistry; Messrs. H. S. Poole, F.G.S., John Rutherford, M. E., and Edwin Gilpin, M. E., F. G.S., are the lecturers in Mining and Assaying, and Dr. Honeyman is the lecturer in Geology, Paleontology, and Mineralogy; whilst the chairs of English, German, French, Spanish, Physics, Mathematics, Drawing—free-hand, mechanical, and architecture are equally satisfactorily filled. The fees are almost nominal, th

METALLIFEROUS MINERALS AND MINING.

METALLIFEROUS MINERALS AND MINING.

Although we have now a pretty extensive mining and mineralogical literature in the English language the student has hitherto been at some disadvantage, especially if his means have been limited, in acquiring the necessary knowledge owing to the number and cost of the volumes which had to be referred to. To meet this case a carefully arranged treatise * has been prepared by Mr. D. C. Davies, of Oswestry, in which an outline of the leading information upon the various branches of the subject which have been given by the various authors who have written upon them. He states that his object has been to describe in a concise and systematic manner the conditions under which metals and metallic ores are found in the different countries of the world. It is hoped that such a description will serve first, to explain to some extent the origin of deposits of metalliferous minerals, and secondly, by defining the zones occupied by the various metallic ores to lessen somewhat the amount of unsuccessful search for them. His endeavour has been to illustrate great principles by a sufficiency of representative details, and to refer the reader to sources where additional illustration, as well as the enumeration of the more minute details of mining may be found. The illustrations have been prepared by the author's som—Mr. E. Henry Davies—and certainly entitle him to the recognition of the services given in the preface.

In the chapter on the materials of which the earth is made Mr.

In the chapter on the materials of which the earth is made Mr. Davies states that these materials, in their combination and varieties, amount to about 600 species, which, however, are resoluble to the 63 elements recognised by chemists, and of which he gives a list. He further gives a brief outline of the principles upon which minerals are distinguished from each other, and tabulates the strata in the order in which they lie upon each other, and of the parces by which the are distinguished from each other, and tabulates the strata in the order in which they lie upon each other, and of the names by which the different groups of them are known to geologists, according to their age, their fossil contents, or the locality in which they have been most studied. He mentions that with the exception of the metal iron, more rarely copper, and occasionally one of the noble metals, all the metallic minerals to be considered are found in the strata below the coal measures; the Laurentian, the Cambrian, the Silurian, the Devonian, and the Carboniferous being their great depositories. It follows, therefore, that it is only in those places where these great groups of strata are exposed on the surface of the earth we may expect to find metallic ores and mines. As a fact these groups of strata make up the great mountain chains of the world, the Laurentian or the Cambrian usually forming the central, or basement, mass of rock. the Cambrian usually forming the central, or basement, mass of rock, and the newer groups reposing in their proper sequence on each side. This arrangement occurs with a remarkable uniformity all the world over. In the chapter on the classification of the deposits of metalliferous minerals he remarks that most fissures that are charged with metallic ores have a general east and west direction, which varies however, about 45° on either side.

With recard to the metallic contents of ledge the nature of the

however, about 45° on either side.

With regard to the metallic contents of lodes, the nature of the strata traversed by lodes is found from long observation to determine to some extent the kind of metallic ore that predominates in the latter. Quartz lodes passing through granitic rocks, especially when pyrites is present, are the favourite resorts of gold. In North Wales the hard blue slates of the Llandeilo strata are favourable for the production of lead. Lead is also the prevailing metallic ore in linestone rocks, although there are occasional deposits of copper. Alternations of greenstone and porphyritic rocks with slates produce copper. Granite, especially the upper coarse and decomposed granitic of Carn. Granite, especially the upper, coarse, and decomposed granite of Cornwall, is the prolific rock for tin. A lode, therefore, changes in the character of its contained metallic ore; as in Cornwall, a lode passing character of its contained metallic ore; as in Cornwall, a lode passing through bluish killas, or slaty rocks, contains copper, which gives place to tin when the granite is reached. In Shropshire, also, the lodes which are productive of lead ore in the bluish-grey slaty rocks of the Llandeilo series become poor in lead and richer in copper as they pass into the underlying grits of the Cambrian rocks of the Stiperstones and Longmynd. There are several chapters on the mode of occurrence of gold, silver, copper, tin. lead, zinc, and iron respectively and in all these the attract chill and index. respectively, and in all these the utmost skill and judgment are secund to the selection.

At the thirty-second chapter Mr. Davies comes to the question of discovering and proving mines. He very truly remarks that a curic chapter might be written on the superstitious and magical means which, in times past, it has been supposed that minerals might be discovered, including that belief in the magical power of the "divining rod," which even now lingers in the minds of men whom we would suppose should know better. Taking a more practical view whing rod, which even now lingers in the minds of men whom we would suppose should know better. Taking a more practical view than this Mr. Davies explains that the commercially valuable minerals, with few exceptions, are confined to the older strata of the earth, from the new red sandstone downwards. There is no mistaking the locality of these older rocks, they form the elevated and rugged portions of the globe, and they have all over the world a general course and direction ranging from north-east to south-west. The search for all metallic ores, event those of item is thus west. The search for all metallic ores, except those of iron, is thus practically restricted geographically to hilly regions, and stratigraphically to the rocks lying below the coal measures. There are then three chapters on the working of metalliferous mines, and two on dressing

" "A Treatise on Metalliferous Minerals and Mining." By D. C. DAVIES, F.G.S., M.E. London: Crosby Lockwood and Co., Stationers' Hall Court.

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metallic ores, a chapter on hydraulic gold mining, one on sundry particulars of work and costs, and one on general considerations, in which the causes of unprofitable mining are well explained.

Although filling little more than 400 pages, Mr. Davies's volume is without question the most exhaustive and the most practically useful work we have seen; the amount of information given is enormous, and it is given concisely and intelligibly, so that neither the practical miner nor the general reader interested in mines can have a better beack for his commanion and his guide. book for his companion and his guide.

THERMODYNAMICS—VAN NOSTRAND'S SCIENCE SERIES.—The new volume of Thermodynamics by Dr. Henry T. Eddy, C.E., of the University of Cincinnati (New York: Van Nostrand. London: Trübner and Co., Ludgate Hill), is calculated to prove of considerable value to all students of the subject, not only from the amount of information actually contained, but from the facility which it will offer for the more thorough comprehension of the province of Particles. offer for the more thorough comprehension of the writings of Ran-kine, Zeuner, Pochet, and others, which to many have appeared ex-cessively involved. There is do doubt much truth in Dr. Eddy's cessively involved. There is do doubt much truth in Dr. Eddy's remark that the theory of thermodynamics as developed by Rankine in his Treatise on the Steam Engine is obscure to a degree, which has greatly interfered with the usefulness of that most valuable treatise, though when it is considered that it is the first treatise published in English founded on correct principles, the marvel is that it still holds its place as a standard work. The nature and the relative value of the principles laid down by the several authors are fully explained, and Dr. Eddy remarks that in 1853 Rankine, in his Manual of the Steam Engine, announced a general law of energy which of the Steam Engine, announced a general law of energy which seems to afford a better basis for the theory of thermodynamics than any other axiom or hypothesis heretofore proposed; but being apparently much absorbed in his molecular hypothesis he neglected sufficiently and apparently between the conference of a which the conference of the conferenc ciently to enforce and explain this most valuable conception. As a consequence the more abstruse and less useful, though more fully explained, axioms of Clausius and of Thomson furnish the basis of explained, axioms of Clausius and of Thomson furnish the basis of every published treatment of the subject. Dr. Eddy, on the contrary, uses Rankine's ideas as the basis of reasoning, but adopts the analytic forms of such investigators as may appear convenient, among whom may be mentioned, besides Rankine, Clausius and Thomson, the more recent investigators Maxwell, Zeuner, Hirn, and Boltzmann. Dr. Eddy has certainly placed the matter in a more readily comprehended light than it has hitherto been, and he shows not only that compound engines are advantageous, but by explaining to what extent and for what reason they are thus advantageous, he affords to engineers the means of determining in what direction it is necessary for them to turn their attention in order to approach most nearly to perfection in the construction of engines of that class. The volume is a very useful one and will, doubtless, be extensively read.

THE MIDLAND INSTITUTE OF MINING, MECHANICAL, AND CIVIL ENGINEERS.

The monthly meeting of members was held at their rooms in Barnsley on Wednesday, the President in the chair. The principal business was the arranging of the evidence that should be given on behalf of the Institute before the Royal Commission on Accidents in Mines. In March last it was proposed that the machinery of the Institute should be put in motion with respect to the commission so as to afford what information it could. The commission had then commenced its investigation, and the only communication received by any member of the Institute was a letter from the secretary to Mr. T. W. Embleton, a former president, wishing him to attend on certain days and give some information. At that time Mr. Embleton was abroad, and he had not since heard anything more. A committee of gentlemen connected with the Institute was formed to take the matter in hand as engineers, and to publish extracts from their Transactions, and to open communication with the Royal Commission. At a meeting in August a resolution was proposed—"That the secretary be requested to write to the secretary of the Royal Commission, stating that if the Royal Commission considered it desirable the Institute will be glad to appear before it by some of its members for the purpose of giving evidence, and that the secretary be further instructed to call a meeting of the council when he gets a reply." At the meeting held in September last the Chairman remarked that they had no hesitation to take some credit for inaugurating the enquiry which had resulted in the appointment of the Royal Commission. About 12 months previously the members were lead by Mr. Embleton into a careful investigation of the practical merits of the safety-lamp, especially with reference to some test of its complete security as against external gas before being put into the hands of the operative miner or other official of the pit. Simultaneously an agitation was aroused touching the Mines Regulation Act, 1872, and the alteration and revision of its clauses, in order to aggravate and in managers of mines.

managers of mines.

Alarmed by the theories and propositions, remarked the President of the Institute at the meeting previously held, put forth in what were considered influential quarters, the engineering portion of the members combined for deliberation and action accordingly, and hence, after conferences and mutual explanations, the grave investion now being prosecuted by and under the authority of Her Majesty and of Parliament. Considering that the commission began its action. tion now being prosecuted by and under the authority of Her Majesty and of Parliament. Considering that the commission began its enquires in April last, and has since sat for the reception of evidence a number of times, it is worthy of remark that the Institute, through some of its members, has so far been reticent. The evidence of the Inspectors of Mines appears to have been taken as well as that of other officials, leaving to the further investigation of the commission the more minute details which go to establish the system of mining which harmonises best with safety and economy. Accordingly, it was stated that some most elaborate reports had been prepared of sulden outbursts of gas that had taken place in different parts of South Yorkshire, where they appear to have taken place more frequently than in any other part of the kingdom, showing that the safety of the men where they take place is only ensured by the best safety-lamps in the best possible condition. These difficulties are of a most trying character from the gas exuding violently alike from floor and roof, whilst in most other districts the gas, as a rule, escapes only from the mine. Information with regard to ventilation capes only from the mine. Information with regard to ventilation as found most successful in the most fiery district in the kingdom, has also been prepared, together with the improved system of testins also been prepared, together with the improved system of vesting safety-lamps, the mode of working coal, and blasting by explosive agents. In South Yorkshire it may be said, as a rule, that their workings were prosecuted at depths below the general level of the water-bearing strata, and to this circumstance in all probability may be attributed the more fertile production of gas than many other coal fields have any good grounds for complaining of.

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essing AVIES, It will be seen from the foregoing remarks that the Midland Institute will be able to give a valuable amount of information to the Royal Commission, such as could not be obtained from any other similar body in the kingdom.

SILICATE COTTON.—The utilisation of the scoria or refuse from blast-furnaces which is technically known as slag, has of late years received a good deal of attention, as the result of which this material, in itself unproductive, has by processes of conversion been applied to several industrial purposes upon a practical and commercial scale. One of the most important outcomes of blast-furnace slag is slag-One of the most important outcomes of blast-furnace slag is slag-wool, or silicate cotton as it is also called, from its resemblance to totton wool. Silicate cotton is now generally recognised as among the most efficacious of all boiler and steam pipe coverings, but the most efficacious of all boiler and steam pipe coverings, but the main difficulty has been to apply it in such a form that the cotton should remain in a compact state without chance of shifting or escaping during repairs. After a series of experiments Messrs. Daniel H. Dade and Co., of London, have managed to overcome the difficulty stated, by applying the cotton, made into mattresses 2 and 3 in thick, to boilers, rendering the shifting of the cotton impossible. For steam-pipes the silicate cotton cement is equally useful, but another and most successful method is to apply the cotton woven with flexible iron wire into long bands which can be twisted spirally round the pipe, an operation which requires little time and no great skilled aspire.

sistance. When fixed in its place a covering of canvas protects it from injury.—Mr. John Alexander, of Glasgow, writes—I have observed a notice of this article which is so far correct, but experiments have been made by other parties besides Messrs. Dade and Co., and which have proved equally successful. I can show anyone anxious to see it silicate cotton woven with wire on to canvas, and which is much superior for covering to the mattress plan. At the present moment experiments are being carried on to still further utilise the slag from blast-furnaces.

CAMBRIAN MINES-IMPORTANT CORRECTION.

In his overzealous efforts to demonstrate the excellent prospects of

In his overzealous efforts to demonstrate the excellent prospects of the copper trade in his communication, published in last week's Mining Journal, Mr. Ernest Hawkins, Sworn Metal Broker, makes a very damaging and curiously erroneous statement concerning the Cambrian Mines, declaring that—

As to the Cambrian Mines, "sufficient unto the day is the evil thereof," and not a single ton of copper from that source has been sold yet, nor are the following figures, showing the decrease of the production in England since 1857, likely to encourage your readers to "bull" the Cambrian shares."

The Editor has no hesitation in expressing his regret that such a statement should have been published, more especially as Mr. Hawkins, from the necessary acquaintance with the metal trade, which the fact of his signing himself "Sworn Metal Broker" would indicate, cannot pretend ignorance of the sources of production, even apart from the circumstance that the Cambrian Mines copper ores are regularly sold at the Swansea public Tickettings, at which sales have been made:—

April 9.......... 58 tons 22½ produce

April	9	58	tons		224	produce)				
•		28	93	*****	54		£1113	5	0	
		14	99		224	,, (21113	O	U	
		16	**		87	,,]				
	23	50	39	*****	173	99	491	5	0	
Oct.	14	28	59	*****	$18\frac{1}{2}$	22				
		15	99			**	549	13	6	
	00	8	99	*****	8	,,				
Oct.	29	31	93	• • • • • •	213	"	657	9	6	
37		40	**	• • • • • • • • • • • • • • • • • • • •	144	,,)				
Nov.	4	31	99	*****	17%	**	*00			
		12	**	*****	223	"	592	1	0	
		1	33		114	")				

the mine sells copper at almost every Ticketing, but that the character of the ore sold is of so high a produce as not to have the appearance of being British ore at all; a 9 per cent. ore is usually considered very high, but it appears that at four out of five of these sales the Cambrian Mines have sold ore of over 20 per cent. produce—a fact which certainly justifies those interested in saying that they have the righest corper over in the kingdom. The disperse and they have the richest copper ore in the kingdom. The directors and the shareholders who have complained of Mr. Hawkins's statement are, however, entirely unjustified in adopting that gentleman's conclusion that because the production of copper in England has diminished, therefore a copper mine has diminished chances of success. The correct conclusion is just the reverse—the smaller the production the better prices will be obtained by the producer. The Cambrian Mines have sold nearly 3500% worth in about six months, and are now delivering a further 50 tons of copper, showing an amount of prosperity which no unsupported adverse statement could interfere with.

THE COPPER TRADE.

Messrs. VIVIAN, YOUNGER, and BOND (Nov. 7) write—Early in the month Chili bars advanced from 514. 10s. to 554, and, after a few days inaction, with a relapse to 534. 10s. the market again advanced to 554, and up to 684. 10s. was paid with prompt. The advice of charters for three weeks ending the 18th ult. at Valparaiso, equal to 2106 tons fine, stimulated speculation, until 684. 10s. was paid three months prompt. At a slight reduction from the extreme rates the trade continued making considerable purchases, chiefly of English raw copper, and the smelters bought largely of turnace material throughout, thus reducing the available supplies of this description, both at Liverpool and Swansea, to an unusually low point. It is a fact worthy of attention that, notwithstanding the pretty considerable rise in the value of Chili bar copper, the quantity of spot stuff offering has been comparatively small, and there are no indications that any of the old holdings outside "Edwadrs" stock, of which moderate sales have been made, have been placed on the market. It may be that consumers have been in the habit of keeping their reserves of copper to a considerable extent in Chili bars in warehouse. Should this beso, the exceedingly small quantity of material outside of Chili bars, either here or on the way, gives additional interest to the situation, as if there is any trade to speak of it would seem we must be very close to the time when such reserves—if they exist, must be largely trenched upon. The sales of furnace material have been as follows, by public ticketing at Swansea—On Oct. 14, 1817 tone British and foreign ores, average produce 3% per cent., average produce 3% p

IMPORTS. Copper in ores and pyrites	16,547	***	1878. 22,991 12,557 30,692		12,913	
Total	70,712		66,240	***	69,824	
Manufactured copper, &c. Unmanufactured do. Foreign do.	12,372		14,198		7,787	
Total	46,980		42,315		37,105	

Messrs Rickards and Budd (Nov. 11) write:—The condition of our market is satisfactory. Deliveries out of stock were very large last month, and are going on fairly, so far, in the present one. America is taking some copper from England, probably in consequence of the excessive quantity of Lake Superior (6000 tons) sent by her to Europe this year she now inds the want of some of it back again. Australia, also, is exporting less. Altogether, we think the rise thus far established is likely to be permanent, and in the event of any favourable symptom appearing, such as a good demand for India—expected by some as soon as that country's cereals are ready for shipment—there is every prospect of higher rates being current. The Board of Trade Returns show a large increase of exports this year over the two previous ones, while imports are only slightly in excess of those years.

Exports—First 10 months.

Exports—First 10 months.

Exports—First 10 months.

Exports—current—there is every precision ones, while imports are only slightly in excess of those years.

Exports—First 10 months.

1877. 1878. 1879.

Exports—current—there is every precision ones, while imports are only slightly in excess of those years.

Exports—First 10 months.

1877. 1878. 1879.

Exports—current—there is every precision ones, while imports are only slightly in excess of those years.

44,353 ... 49,054 ... 57,179 11,322 17,036 34,731 12,286

THE TIN TRADE.

Messrs. VIVIAN, YOUNGER, and BOND write:—The movements in tin have been rapid and extreme during the past month. Foreign rose from 75s. to 81s., and again to 85s. during the first week. A relapse to 81s. 6d. proceeded a bound to 91s., caused by the purchase on American account of the whole of the Billiton sale of Oct. 13 (13,000 peculs), at a price equal to about 83%, per ton in Holland; 95s. 6d. was the crowning point, and though sales were made at one point down to 87s. in the realisation of some old stock, the announcement of the large deliveries, as below, caused a sudden recovery to 95s. Further realisations have caused some relapse, but at the close the market is steadier at 92s. 6d. to 93s. The generol statistics show a large improvement, and with the increased requirement of the tin-plate makers, who are now using much larger quantities, and also with the American demand diverting our usual supplies from the Straits and also from Australia, it will not be surprising if the figures show still more favourably during the next two months. The deliveries of foreign from wareful to the surprising fits the show still more favourably during the next two months. The deliveries of foreign from wareful as the surprising fit the figures show still more favourably during the next two months. The deliveries of foreign from wareful as the surprising fit the figures show still more favourably during the next two months. The deliveries of foreign from wareful as a surprising fit the figures show still more favourably during the next two months. The stock of foreign tin in London and Holland is thus estimated:—

1879. 1878. 1877.

Nov. 1. Nov. 1. Nov. 1.

on and Honand is thus estimated:	Nov. 1.	Nov. 1	Nov. 1.	
Foreign tin in LondonTons	8,530 .	 9,339	 9,288	
Banca tin in Holland	1,297 .	 1,240	 968	
Do. (in Company's hands)	1,421 .	 1,112	 908	
Billiton tin in Holland	2,089 .	 1,674	 1,280	
Total	13,337			

quarter, and prices have already had a large rise. The delivery of foreign out of warehouse, London and Holland, is:—Jan. 1 to Oct. 31, 19,249 tons, against 15,845 cons in 1878, and 14,802 tons in 1877. The stock of tin here and in Holland mitting Banca in Dutch Trading Company's hands, is:—Oct. 31, 12,107 tons, against 12,520 tons Oct. 31, 1878, and 12,077 tons Oct. 31, 1877.

11,588 11,124

PRODUCTION OF COAL IN FRANCE.—The rapidity with which the consumption of coal has increased in France during the last 30 years or so is shown by a paper recently read by M. Wuillemin, director of the collieries at Aniche, in which he gives the following statistics:—

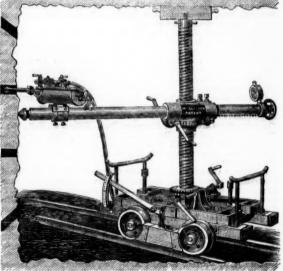
	Production.		Imports.	Tota	l consumption	1
1850Tons	4,433,567	*******	2,791,700	********	7,225,267	
1860	8,309,622		5,960,630		14,270,252	
1870	13,179,780		5,650,250	********	18,830,778	
1875	17,046,890		5,610,640		24,657,530	
1877	16,877,200	*******	7,267,300		24,144,500	
The inferiority of						í
the fact that the a						

Nord or Pas de Calais is only 152 tons per annum, while that of a Durham collier is 333 tons, or more than double; also that the cost per ton of coal put on the rail is nearly 9s., while in Durham it does

QUICKSILVER.—During the past three years five counties in Cali fornia have produced an aggregate of 168,582 flasks; a flask contains 76½ lbs. qu-cksilver.

NEW ROCK-DRILL CARRIAGE

There can be no doubt that the amount and quality of the work There can be no doubt that the amount and quality of the work done with rock-drills depends to a very large extent upon the manner in which they are fixed and kept to their work, a comparatively small amount of vibration causing a material diminution in the depth of the hole bored in a given time. To ensure the largest possible amount of work being done by the drill Mr. James McCulloch, engineer, of Manchester, has invented an apparatus or carriage to be used for supporting or carrying rock-drilling machines for mining, tunnelling, and similar operations, and is designed to provide an apparatus which will be of great strength, simple in construction and operation, and which will, moreover, afford means whereby the drilling machine may will be of great strength, simple in construction and operation, and which will, moreover, afford means whereby the drilling machine may be very quickly and easily adjusted to different positions. By employing an apparatus constructed according to his invention one attendant is enabled to set the machine to work in any desired position and at any angle without loss of time, and with slight exertion. A drilling machine mounted upon this carriage or apparatus may be readily adjusted to the varying height and width of the headings; also to a position for drilling holes at any part and at any angle of the face of the same without removing the carriage from the position in which it is fixed at the commencement of the operations. tion in which it is fixed at the commencement of the operations



The whole apparatus is thoroughly solid and substantial, and appears likely to prove very durable, notwithstanding the extremely rough usage to which machines of this class are subjected. In carrying the invention into practice he employs an ordinary bogic or truck, which may be on wheels or otherwise; upon this truck he provides a bed-plate, upon which is mounted a vertical tubular bar, which has a screw thread formed upon it. This vertical bar is so arranged that it may be raised and lowered by a screw nut whose outer periphery forms a worm wheel. With this worm wheel is geared a worm fixed upon a horizontal shaft, which may be operated by a crank handle outside the frame of the truck. By this arrangement the vertical bar can be tightened up against the roof to any pressure as may be required, leaving the apparatus in a thorough solid position. Upon the vertical bar he provides a double universal clamp or cross head, which serves to support a horizontal tubular rack bar. This part of the apparatus is arranged to be raised and lowered by means of another screw nut, whose exterior periphery forms a worm wheel, and is geared with a worm fixed on a shaft supported in bearings on the clamp. The rack bar is caused to travel in an horizontal direction by a toothed pinion, which engages with the teeth on the bar, and is geared. and is geared with a worm fixed on a snart supported in bearings on the clamp. The rack bar is caused to travel in an horizontal direction by a toothed pinion, which engages with the teeth on the bar, and is operated by a crank or handle at the side of the cross head. The horizontal bar is also moved in a circular direction by means of the clamp or cross head. This rack bar is tubular, and encloses a shaft screwed at one end, its screwed part working into a pivot or end piece for adjusting the bar when in a working position. At one end of the shaft there is a self-acting weight, which acts upon the pivot when it is required. By this arrangement the horizontal bar is kept in a constant rigid position while the drill is at work, and at the same time it does not alter the position of the drill from the line of same time it does not alter the position of the drill from the line of the hole just started. The drilling machine may be mounted upon the horizontal bar, or if required on the vertical bar. It will be readily seen that a rock-drilling machine placed upon an apparatus constructed as above described may be adjusted to any required position or angle without moving the truck whereon the said apparatus is mounted.

ratus is mounted.

The advantages of the new drill carriage will be obvious to all who have been in the 'habit of using rock drills—a sure foundation is secured for the drill; the adjustment over the whole face of the work is very easy, and a hole can be put in at any angle, so that a less number of holes need be bored (it is well known in blasting that one hole in the right place is worth two in the wrong), saving the explosive. The carriage will run the drill from its position during blasting, and return it again to its work. Its strength and stability place it out of the range of accident, and prevent needless loss of time and stoppage. Notwithstanding its weight the mechanical arrangements allow of all the parts being freely moved. Carriages are now being extensively used in ironstone mines, tunnels, and headings. As Mr. McCulloch has been for many years intimately connected with the application and use of rock drills, he was well acquainted with the exact requirements of the case, and the greatest obstacle he has found in getting people to adopt rock-drilling machinery was to give found in getting people to adopt rock-drilling machinery was to give them speed with economy, which has led him to bring out this car-riage, and by its appliance in mining and tunneling he has been able to do so. He knows several instances where drills have failed from want of such an apparatus. It does not matter how quick a

drill may penetrate the rock (and he thinks there is very little dif-ference in the speed of any of the drills now out), the chief point is to get the drill quick at its work and away again, or what is gained in a machine drilling a hole quick is soon lost again in fixing. Seve-ral of the machines are at work, and have given great satisfaction.

Registration of New Companies.

The following joint-stock companies have been duly registered :-THE LONDON AGENCY (Limited).—Capital 50001., in shares of 51. To apply to Parliament and the Board of Trade from time to time to apply to Parliament and the Board of Trade from time to time for concessions, grants, &c., for the construction of public and other works. The subscribers (who take one share each) are—C. W. Kirk, 148, St. Paul's-road; E. Leworthy, 13, Finchley-road; E. T. Henman, 15, Manor-road; E. T. Henman, jun, 169, Shoreditch; G. Fraser, King's Arms-yard; W. W. Temple, Lewisham; H. Fleet, South Hackney.

King's Arms-yard; W. W. Temple, Lewisham; H. Fleet, South Hackney.

SOUTH-WESTERN LOAN AND DISCOUNT COMPANY (Limited).—
Capital 20,000l., in shares of 5l. To purchase or otherwise acquire the goodwill, assets, &c., of the South-Western Loan and Discount Company, and to carry on such business. The subscribers (who take one share each) are—C. King, 136, Blackfriar's-road; C. A. May, 217, Grove-road; S. Joseph, 40, Sutherland-square; J. Monaghan, 10, Park-street; S. Britton, jun., 19, Lambeth-road; J. G. Messer, Webber-street; C. J. Redford, 96, London-road.

KOPP'S EXTRACT OF MEAT COMPANY (Limited),—Capital 100,000l., in shares of 10l. To carry on in the United Kingdom and elsewhere the manufacture and sale of this extract, and to buy and sell cattle, poultry, game, fish, &c. The subscribers are—General E. K. Money, 16, Charles-street, 25; Lieut-Colonel W. W. Knollys, 102, Belgrave-road, 25; Capt. E. M. Cooksley, Burgess Hill, 25; Admiral J. H. Selwyn, 16, Gloucestor-crescent, 1; J. R, Pearson, 8, Northumberland-Alley, 25; F. R. Nurthen, 390, Strand, 1; G. Sharpe, 428, Strand, 1. GRAND HOTEL, EASTBOURNE, COMPANY (Limited).—Capital 65,000l., in shares of 10l. To purchase the freehold, fixtures, property, effects, and goodwill of the Grand Hotel, and continue the business. The subscribers are—Admiral F. Max, Wimbledon, 50; G. Mundie, Eastbourne, 50; A. Barron, Stamford Hill, 50; C. A. Venn, 57‡, Coleman-street, 5; G. P. Morton, Strawberry Hill, 1; H. T. Feast, 10, Old Jury Chambers, 1; E. H. Hale, 16, Cullumstreet, 1.

Venn, 512, Colchardsteet, 9, Cl. 1.

H. T. Feast, 10, Old Jury Chambers, 1; E. H. Hale, 16, Cullumstreet, 1.

The Newfoundland Mineral Company (Limited).—Capital 60,0000/., in shares of 51.

To purchase or otherwise acquire certain mining licenses, grants, and leases for searching for and exploiting minerals, situate at Robert's Arm and Conception Bay, 'Newfoundland, now standing in the names of F. Ellerhausen, A. Guzman, and J. Evans-Freke Aylmer. To purchase any other lands, mines, collieries, minerals, works, concessions, licenses, grants, &c. To work any mines and quarries, ores, coal, and other minerals which may be at any time acquired by the company. To erect, build, acquire pit, and work all smelting and other works, manufactories, and buildings that may be found necessary. The subscribers (who take one share each) are—F. Ellerhausen, Nova Scotia, mineowner; H. Haveman, Paris, merchant; J. Evans-Freke Aylmer, 27, Walbrook, gentleman; C. E. Long, 6, Great Winchester-street, secretary to a public company; W. Hall, 75, Cornhill, bank manager; P. Thaine, 1, St Swithin's-lane, merchant; E. J. Thomson, 5, Portland-road, gentleman. (No particulars are given.)

Swithin's-lane, merchant; E. J. Thomson, 5, Portland-road, gentleman. (No particulars are given.)

CHICAGO AND GRAND TRUNK RAILWAY COMPANY (Limited).

—Capital 1000l., in shares of 10l. To make and maintain a rail-road between Chicago and Port Huron. The subscribers (who take one share each) are—Sir H. W. Tyler, Edmonton; Sir Charles L. Young, Bart., 5, Ashburn-place; W. N. Heygate, M.P., Loughboro'; W. Newmarsh, 67, Lombard-street; R. Young, Glasgow; J. Keaton, 21, Old Broad-street; Lord Claude Hamilton, 23, Lowndes-square.

Cochin and Travanoore Railway Company (Limited).—

Capital 550,000l., in shares of 10l. The construction or acquisition by purchase or otherwise of railways and tramways in the East Indies. The subscribers are—Sir J. Ferguson, Bart., Kilkerran, N.B., 25; Sir William Cunninghame, Bart., M.P., Glenmoor, 25; R. B. Elwin, Oriental Club, 25; J. H. Blair, Arthur's Club, 25; Sir Charles S. Young, Bart., 5, Ashburn-place, 25; B. Anderson, Dalkey, 25; A. D. Best, Madras, 5. Young, Bart., 5, Best, Madras, 5.

PATENT SAFETY SALOON BOAT COMPANY (Limited).—Capital TATENT SAFETY SALOON BOAT COMPANY (Limited).—Capital 100,000%, in shares of 10%. The construction and sale of such vessels. The subscribers (who take one share each) are—R. Dongan, 22, Fullerton-road; M. J. Almond, 19, Portsea-place; P. Wohack, 27, Alfred-place; W. McDowell, Camberwell; H. G. Gribble, near Wandsworth; W. Delf, Walton; P. Barry, 11, Bridge-street.

THE GENERAL PRODUCE TRADING COMPANY (Limited).—Capital 20000% is bares of 10%. To invest and sall described and control of the control

20,000., in shares of 10. To import and sell American provisions throughout the United Kingdom and elsewhere. The subscribers (who take one share each) are—J. G. Trenerry, Bristol; C. Goodwin, Bristol; H. J. Warren, Bristol; A. B. Yeo, Bristol; A. W. Trenerry, Bristol; J. G. Trenerry, Bristol; J. G. Trenerry, Bristol; J. G. Trenerry, Bristol; J. Wasbrough, Bristol.

LONDON AND SUBURBAN LICENSED VICTUALLERS MINERAL AND

AERATED WATERS MANUFACTURING COMPANY (Limited).—Capital 50001., in shares of 51. To purchase the business of W. G. Middleton at Turnham Green, and to carry it on. The subscribers are—W. W. Grey, Hammersmith, 5; R. J. Hunter, 326, Oxford-street, 1; E. C. Middleton, Hammersmith, 1; S. Lynch, 1, Hare-court, 5; F. Jeffrey, 46, King-street, 5; T. J. Coombs, Whitechapel, 2; A. Middleton, Hammersmith, 5.

Hammersmith, 5.

CO-OPERATIVE METROPOLITAN LAUNDRIES (Limited).—Capital 15,000*l*., in shares of 10s. To erect steam laundry works and carry on the business of a laundry. The subscribers (who take one share each) are—W. Jones, Camberwell; J. Sealy, I, New-street; A. Soares, 54½, Bishopsgate-street; W. Hird, 16, Hobury-street; Baron de Wolffer, 337, Albany-road; F. W. Beaumont, 25, Gower-street; W. Phillips, 54½, Bishopsgate-street.

THE MOSCOW METROPOLITAN GAS COMPANY (Limited).—Capital 550,000*L*, in shares of 20*L*. To carry out an agreement for lighting

THE Moscow Metropolitan Gas Company (Limited).—Capital 550,000L, in shares of 20l. To carry out an agreement for lighting Moscow with gas. The subscribers (who take one share each) are—W. A. Michael, 12, Tokenhouse-yard; J. Flemmich, 12, Tokenhouse-yard; P. du Pre Gunfen, Bartholomew House; G. L. M. Gibbs, 15, Bishopsgate-street; Baron R. A. Heath, 31, Old Jewry; H. C. H. Breuer, 31, Lombard-street; G. M. Clements, 17, Gresham House.

THE INTERNATIONAL CHEQUE BANK (Limited).—Capital 200,000L, in shares of 20l. To carry on the business of bankers both in London and Paris in all its branches. The subscribers (who take one share each) are—P. A. Hodgson, 4, Broad Sanctuary; A. Mailly, 22, Bedford-row; W. Eykelbroch, 9, Bridgewater Square; C. von Berg, Upper Norwood; J. R. Rowland, Stoke Newington; G. Excell, Islington; L. F. Semonier, 5, Cross-street.

THE IRWELL INDIA-RUBBER AND GUTTA PERCHA WORKS COM-

THE IRWELL INDIA-RUBBER AND GUTTA PERCHA WORKS COM-PANY (Limited).—Capital 50,000l., in shares of 5l. To purchase and carry on the business of the Irwell India-Rubber Works, situate and carry on the business of the Irwell India-Rubber works, situate at Salford. The subscribers (who take one share each) are —A. R. Robinson, Ealing; C. T. Henwood, Rochester; F. G. Henwood, 161, Highbury New Park; R. H. Harper, Tooting; J. Henderson, Croydon; J. W. Thomas, 4, George-street; W. Martineau, 6, Great Winchester-

LEGAL, MEDICAL, AND GENERAL STORES (Limited).—Capital 100,000l., in shares of 2l. To carry on the business of general dealers for supplying shareholders and others with articles of domestic consumption. The subscribers (who take one share each) are—J. Lock, Arkley; C. T. Pearson, Arkley; T. Hunter, Brixton; R. Libby, 12, Union-court; F. H. Benoch, 43, Moorgate-street; J. Hicks, West Kensington; R. Ward, 3. Bishopsgate-street.

do Sul, Brazil, according to an agreement entered into by them and H. Bankart as trustee for the company (particulars of purchase not given). The selling, letting, and carrying on of the several branches of the business of a mining and reduction company, and such other two works, operations, and business as may be deemed advisable in the interest of the company. The subscribers (who take 50 shares each)

Souza liberal concessions, gold mines and reduction works, land, buildings, plant, and other property in the province of Rio Grande do Sul, Brazil, according to an agreement entered into by them and H. Bankart as trustee for the company (particulars of purchase not given). The selling, letting, and carrying on of the several branches of the business of a mining and reduction company, and such other works, operations, and business as may be deemed advisable in the interest of the company. The subscribers (who take 50 shares each)

Mortgage & Agency Company of Ceylon

Incorporated under the Companies Acts, 1862 and 1867, with Limited Liability.

Capital £1,000,000 (with power to increase), in 100,000 Shares of £10 each.

First Issue £500,000, in 50,000 Shares of £10 each.

A Deposit of 10s. per Share on Application, a Payment of 10s. per Share on Allotment, a Further Payment of £1 per Share at
Three Months from the Date of the Allotment, and, if required, a further payment of £1 per Share at
Six Months from the Date of the Allotment.

It is Intended to Make no Call beyond the above £3 per Share, as Debentures will be issued against the Uncalled Capital. In the event of no Allotment taking place the Deposits will be Returned in Full.

TRUSTEES.

M. H. CHAYTOR, Esq., Chairman of the National Discount Company, and of the Alliance Bank.
WILLIAM HOWLEY PALMER, Esq. (Messrs. Dent, Palmer, and Co.), late Governor of the Bank of England.
WILLIAM JAMES THOMPSON, Esq., Director of the National Discount Company and Phœnix Fire Insurance Company.

DIRECTORS.

D. A. CHAYTOR, Esq. (Messrs. Chaytor and Webster), 155, Fenchurch-street.
H. A. EVATT, Esq., late Public Works Department and Member of the Legislative Council, Ceylon.
H. D. H. FERGUSSON, Esq., late of the Bengal Civil Service, and Member of the Bengal Legislative Council.
T. J. REEVES, Esq., (Messrs. Dent, Palmer, and Co.), London.
Colonel E. W. SCOVELL, St. Audries, Beckenham.
EDWARD WEBB, Esq., late of Shanghai, Merchant.

COLONIAL DIRECTORS.

WEBB, Esq., late of Shanghai, Merchant.
COLONIAL DIRECTORS.

The Hon. R, BEAUCHAMP DOWNALL, Member of the Legislative Council of Ceylon.
GEORGE MACGREGOR, Esq., of Messrs. MacGregor and Co., Colombo, Ceylon.
JOHN LOWDEN SHAND, Esq., Chairman Planters' Association, Ceylon.
RALPH TATHAM, Esq., of Messrs. H. S. Saunders and Co., Colombo, Ceylon.
COUNSEL AT CEYLON.

The Hon. CHARLES L. FERDINANDS, Queen's Advocate, Colombo.

BANKERS.

THE ALLIANCE BANK (Limited), Bartholomew-lane, E.C.
UNION BANK OF SCOTLAND, Edinburgh, Glasgow, and branches. PRODUCE BROKERS.

Messrs. W. J. and H. THOMPSON, 38, Mincing-lane.

Messrs. HARDING, WHINNEY, and CO., 8, Old Jewry, E.C.

SOLICITORS.

Messrs. STEPHENS, LANGDALE, and TURNER, 30, Bedford-row, London. SECRETARY.

W. M. LEAKE, Esq., late Member of the Legislative Council, and Chairman Planters' Association, Ceylon.

TEMPORARY OFFICES.

CITY CHAMBERS, RAILWAY PLACE, FENCHURCH STREET, E.C.

The financial pressure which has of late so generally existed in the East, and the expressed intention of the Banks in Ceylon to refrain from making advances on property, or against growing crops. and to restrict their business to pure banking operations, has thrown open a wide field for the safe and profitable employment of capital, which it is proposed to occupy by a company, to be called the Mortgage and Agency Company of Ceylon (Limited), based upon the creation of an ordinary share capital, and the raising of money by the issue of debentures. It sobject will be to extend to Ceylon facilities similar to those extensively enjoyed by other colonies of the Empire, which have afforded safe and remunerative investments to English capitalists.

The operations of the company will embrace—

1.—Loqua on mortgage of land.

2.—Advances on produce and growing crops.

3.—Sale of produce consigned to market.

It is proposed in the first instance to confine the operations to mortgages only. The company find that advantageous arrangements can be made with mercantile houses in London to advance the necessary expenditure for the cultivation and maintenance of the properties on which the company have mortgages. Messrs. Dent, Palmer, and Co. have offered to entertain the agency until the company decide upon their future arrangements in this respect.

All loans made by the company will be carried out in sterling money, thus avoiding the liability to loss arising from fluctuations in the value of the rupee, and they will in each case be limited to such amounts as the judgment and experience of prudent valuers may advise, and will be subject to the approval of the London board. It is not proposed nor intended that the company shall in any case become the purchaser of lands, or produce, nor has it entered into engagements for the investment of any portion of its capital.

Lands in Ceylon occupied by Europeans are held under a Government title, and all transfers and mortgages of them are subject to compulsory registration. When loa

of the trustees, and, with the uncalled capital, will constitute the security for the debentures.

The rate of interest obtainable in Ceylon on primary mortgage bonds is higher than in England, ruling ordinarily about 8 per cent. per annum, and upon the security of these bonds and its uncalled capital the company propose to raise money upon its debentures at remunerative rates. The profits on this margin, added to the interest upon the called up capital, should yield satisfactory returns upon their investments to the shareholders.

The following table, compiled from the "Investor's Monthly Manual" for September, 1878, shows the dividends paid by existing companies of a similar nature:—

Name of company.	When esta-	Capital sub- scribed.	Paid up.	u	nous aid p os ares	1	Pr	ese		Last dividend paid.	and balance after last divi- dend.
		æ	£	£	s. (d.	£	9.	d.	p. c.	æ
Australian Mortgage	1863	1,500,000	300,000	5	0	0	10	5	0	20	155,020
Credit Foncier of Mau-	1864	600,000	120,000	10	0	0	13	15	0	1234	44,733
Mauritius Land Credit	1863	300,000	60,000	2	0	0	4	2	6	15	24,500
New Zealand Loan and a Mercantile Agency	1865	3,000,000	234,320	2	10	0	4	0	0	10	163,824
Scottish Australian In-	1840	500,000	500,000	100	0	0	185	0	0	10	70,244
Trust and Agency of Australasia	1861	500,000	212,000	1	0	0	2	5	0	20	50,644
Agricultural Company of Mauritius (Lim.).	1874	200,000	20,000	1	0	0	2	5	0	20	20,760

1876 "1,702,819
1877 "1,702,819
1878 "1,702,819
1878 "1,702,819
1878 "1,802,909
The excess of revenue in 1877 was caused by sales of land beyond precedent, and by the results of the pearl fishery.

Coffee is, and has been for 40 years past, the staple production of the island, and the prices ruling for it in the markets of the world having been for some years firmly established, an enduring impetus has been given to its production, and the area under cultivation has been constantly and rapidly increasing with the increased demand. Large tracts of new land have been recently planted; the reserve forest lands still in the hands of Government are extensive, and will no doubt readily find purchasers, seeing that coffee planting has proved remunerative even at lower rates than those now current in the markets. With good management the planters have been prosperous despite the fact that many commenced with small capital, and were, consequently, subject to the payment of shigh rates of interest upon advances.

In addition to the staple of coffee, new industries have been opened up of late years by the cultivation of cinchona, tea, and cocoa, which, while affording opportunities for the employment of additional capital, have strengthened the prevailing belief that the prosperity of the island has been permanently ensured. That the Home and Colonial Governments share in this belief is placed beyond doubt by the sanction just granted, after full inquiry, for the extension of the Government railway for some 50 miles into the heart of the new coffee districts. This will be the means of considerable saving to the planters in transport, and is is to be hoped will be as remunerative to the Government as the present line, which has been paying over 10 per cent. on the outlay.

The only contract entered into is one between E. C. Maddison and W. M. Leake, as trustee on behalf of the company, dated 10th November, 1879, with reference to the preliminary expenses.

Copies of the Articles of Association and of the above-mentioned co

THE MORTGAGE AND AGENCY COMPANY OF CEYLON (LIMITED).

FORM OF APPLICATION FOR SHARES, (To be retained by the bankers).

To the Directors of The Mortgage and Agency Company of Ceylon (Limited).

BESSEMER STEEL FROM PHOSPHORETIC PIG-IRON.-When pig-iron the operation. The remainder of the lime he throws into the is blown in the Bessemer converter with a silicious lining, in the manner now practised, asis well known, the blow is stopped and the converter is turned down to add the spiegel when or almost immediately after the flame drops, which happens almost concurrently with the disappearance of the so-called carbon lines from the spectrum. If this is not done the metal is greatly wasted, and much importance is attached to not overholwing the metal except in some instance of the converter in conjunction with white smoke round the edge of the flame drops and the so-called carbon spectrum lines disappear, but he continues it from 1 to 5 and ately after the flame drops, which happens almost concurrently with the disappearance of the so-called carbon lines from the spectrum. If this is not done the metal is greatly wasted, and much importance is attached to not overblowing the metal except in some instances of a very silicious pig, when the blow is occasionally continued for some 40 seconds, while even if the metal is overblown even for many minutes the phosphory is not recoved. By the improved process invented utes the phosphorus is not removed. By the improved process invented by Mr. S. G. Thomas, of Battersea, a converter lined with a calcareous or magnesian material, by preference magnesian lime bricks is used. He also produces a highly basic calcareous slag, which contains over 45 per cent. of lime and magnesia together; by adding to the convents of the converter bases equal in weight to from 4 to 6 times the weight

the converter in conjunction with white smoke round the edge of the flame, but the stopping point is better and more exactly regulated by taking small test samples out of the vessel and examining their fracture. The first test is taken 1 to 3 minutes after the drop, when fle blower judges from the appearance of the flame the metal is nearly or quite dephosphoriscd. The test ingot is slightly cooled to set it, and then while still hot rapidly hammered out; it is then plunged in water till cold and broken under the hammer. If the fracture exists the state which white scales and love forces indicating the hibits a leaden bluish white colour and long facets indicating the Hicks, West Kensington; R. Ward, 3. Bishopsgate-street.

THE SECURE INVESTMENT ASSOCIATION (Limited).—Capital of the converter bases equal in weight to from 4 to 6 times the weight to from 4 to 6 times the weight to from 4 to 6 times the weight to from 2 to 6 the converter bases equal in weight to from 4 to 6 times the weight to five the silicon and phosphorus contained in the pig or metal treated. The bases added must consist of lime or lime mixed with a little iron ore, with sometimes (though it is not often necessary) the addition of a little common salt. He prefers to add a great part of the lime in if necessary again blown, or if the first sample showed that the metal down and either sampled again (if the blower thinksnecessary. It is then again for the silicon and phosphorus contained in the pig or metal treated. The bases of the silicon and phosphorus contained in the pig or metal treated. The bases added must consist of lime or lime mixed with a little iron ore, with sometimes (though it is not often necessary) the addition of in contito le prese give Augu The in Re in Pearse post podiately terms with t Aug. 2 I may of th told

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SATURE SATURE SATURE West Bass 3½ to 3½ to 16; 3½ to 3½ to 42; MOXDA* 11½; Sou Crebor, 5; Tolgus, 25; 52½ to 5; 52½

blowing of Bessemer metal except when treating phosphoretic pig-iron in combination with the use of a calcareous or magnesian lining to blowing of besenter metal except when treating phosphorete and in combination with the use of a calcareous or magnesian lining to the converter and the addition of large quantities of lime, so as to produce a highly calcareous slag in which the phosphorus may be removed as described, but he does not find overblowing beneficial in removing phosphorus under any other conditions.

Original Correspondence.

THE FLAGSTAFF MINING COMPANY OF UTAH.

SIB.—By way of accumulating proof of the correctness of my contradiction of the Secretary's statement that he had not been able to learn from me the particulars of price or terms on which the present holders of the mine had authorized me to sell the same, I give you a copy of a memorandum drawn up by Mr. de Metz in August last, at the time the petitions were expected to come on. The memorandum is as follows:—

August last, at the time the petitions were expected to come on. The memorandum is as follows:—

**Re THE PETITION AGAINST THE FLAGSTAFF COMPANY OF UTAH (Limited).—Mr. Pearson is willing to use his influence with the petitioners to get the petitions postponed for three months on an understanding that Mr. Vincent will immediately co-operate with Mr. Pearson in the formation of a new company on the terms of the proposals as known to be in Mr. Pearson's hands. I entirely agree with the above, and advise the directors to fall in with the suggestion,—A. KERLY, Aug. 2, 1879.

The first paragraph is in Mr. J. Mr.

with the above, and advise the directors to fall in with the suggestion,—A. Kerly, Aug. 2, 1879.

The first paragraph is in Mr. de Metz's own handwriting, and the second in the handwriting of the solicitor of the company. I think I may safely leave it to you to point out and explain the continuance of the extraordinary dealings in the shares, in which business I am told has to-day been done from 30s. to 40s, and will only observe that no such value can possibly attach to the stock. The company has no property, and supposing it had the whole of the locations, such a price as would be represented by 30,000 shares at 2l. each, —60,000l.—is much more than the vendors ask for it; and let me been represent that the property in the hands of the present company. —60,0007.—1s much more than the ventors as not u; and te me here repeat that the property in the hands of the present company would be subject to the enormous debt and claims on it of from 40,0007. to 50,0007. Add to this the amount raised under the mortgage, and you have an indebtedness of from 70,000 to 80,0007. This to start with, and no capital to work with, and you have a company carefully provided with all the conditions calculated to ensure silvers.

THE VAN CONSOLS AND GLYN COMPANY.

SIR,—I am an unfortunate shareholder in the Van Consols Com-pany, now called the United Van Consols and Glyn Company, and I should like through your influential Journal to ask my co-shareholders should like through your influential Journal to ask my co-shareholders if they are not of opinion, seeing the great expense incurred in the amalgamation and winding up of the company through the laches, or negligence, of the directors in signing duplicate certificates, &c., whether it be not advisable to test the question whether these expenses (if I am rightly informed some 4000l.) should not be paid by the directors themselves. It seems preposterous that the shareholders should have their property ruined, and then kept 2½ years out of it by the action of their directors, and have also to pay their expenses. I think there are many of my brother shareholders who may be of the same opinion. nay be of the same opinion.

A LONG SUFFERING SHAREHOLDER.

ELLIS PEARSON.

WATSON BROTHERS' MINING CIRCULAR.

WATSON BROTHERS. MINEOWNERS, STOCK AND SHARE DEALERS, &C 1, ST. MICHAEL'S ALLEY, CORNHILL, LONDON.

We have always considered the simplicity of the cost-book the best adapted for Cornish mines, and when properly carried out, with a committee to audit the accounts every month, it is also the safest. committee to audit the accounts every month, it is also the safest. The Crebor accounts, as our correspondent states, are a model for the Cost-book System. They show clearly, in the first place, receipts and payments from meeting to meeting; second, profit and loss for four months; third, balance-sheet showing assets and liabilities to the day of meeting. The day of meeting here was on the 6th, and the cost paid on the 30th of last month was charged up.

The cost-book is only dangerous where costs are kept back, and, the first place is the cost back and the cost b

therefore, a wrong balance brought forward; and sometimes, as in the case of many of the tin mines, dividends are paid with heavy debts on the books, but not always shown in the accounts sent to the out-adventurers, who do not attend meetings and make enquiries for

It is thoroughly believed among agents in Anglesea-we referred It is thoroughly believed among agents in Anglesea—we reterred to the matter years ago—that under the great white rock at Parys Mountain a mass of ore similar to that of the great open-cast would be found. But nothing has been done to prove it, and as it is now in the sett of Morfa Du, and copper has gone up, six men have been put into the adit north of white rock to drive under a lode which produced good copper at a shallow level. This drivage will in about 12 or 15 fathoms get under the said lode 15 fathoms deeper than it has not been seen.

D'ERESBY MOUNTAIN.—In the agents' report received on Wednes D'ERESBY MOUNTAIN.—In the agents' report received on Wednesday they stated that they had commenced cutting into the western side of the lode at No. 5, so as to communicate with the old excavations below; and since then some of the richest lead ever seen in the mine has been sent up to us from this place. The agents consider it of importance, as this lead ground is whole for 30 fms. long and 18 fms. high. We shall hear more about it in a few days; at present the agents have not put a value upon it per fathom.

Many people have thought us too sanguine in regard to this mine, and no doubt the great delay in getting at the ore at No. 5 (caused by difficulties the agents never anticipated in clearing a crushed in and broken down adit for nearly 300 fms.) has caused many people to consider us mistaken, but we apprehend the returns in future will speak for themselves, and show that all we have said will be fully realised.

It seems to be the wish of many shareholders to divide D'Eresby It seems to be the wish of many shareholders to divide D'Eresby Mountain into 1l. shares. At present it is in 1024 shares, of 20l. each, but on 512 of them there is 5l. per share to call up, and 2l. 10s. of it will be required at once. If any change, however, is made in the number of shares, which can only be done at a general meeting, the whole 5l. per share would have to be paid up. Of course, all shares dealt in are fully paid up.

SATURDAY, Nov. 8.—Market firmer. Carn Brea, 55 to 60; Dolcoath, 52½ to 55; Tincroft, 15 to 16; South Frances, 11½ to 12; South Condurrow, 14 to 15; West Basset, 11 to 11½; West Frances, 11 to 12; Grenville, 5 to 5½; Pewor, 15 to 16; Uny, 1½ to 1½; Yan, 21 to 22; Great Laxey, 17½ to 18½; Leadhills, 3½ to 16; Uny, 1½ to 1½; Yan, 21 to 22; Great Laxey, 17½ to 18½; Leadhills, 3½ therodafoot, 2½ to 2½; Grogwinion, 3 to 3½; Roman Gravels, 11 to 11½; South Darren, 2½ to 2½; Tankerville, 5 to 5½; Pewor, 5½ to 6; Devon Great Consols, 4½ to 5; Parys Copper, 17s. 64, to 20s.; West Schor, 50 to 55; West Tolique, 26 to 28; East Crebor, 5½ to 68; West Tolique, 26 to 28; Leadhills, 3½ to 4; Cape Copper, 31 to 32; Flagstaff, 25s. to 30s.; Richmond, 9½ to 9¾. Moxday, Nov. 10.—Market very quiet. Van, 21 to 22; Roman Gravels, 11 to 11½; Great Laxey, 17½ to 18½; South Darren, 2½ to 2½; Leadhills, 3½ to 4; Crebor, 5½ to 6; Devon Great Consols, 4½ to 4½; Carn Brea, 55 to 60; Dolcoath, 52½ to 55; Tincroft, 15½ to 16½; Wheal Basset, 3 to 3½; Kitchy, 2½ to 3½; Pevor, 15 to 16; Uny, 1½ to 2; Arendal, 4 to 5; Don Pedro, 11s. 6d. to 13s. 6d.; Flagstaff, 1½ to 14½; Panulcillo Copper, 3½ to 3½; Richmond, 9 to 9½; Santa Barbara, 30s. to 40s.
TUBSDAY, Nov. 11.—There is not much doing to-day, the dealers being busy preparing for the settlement, and prices generally are about the same as yeaterday. Wednesday, Nov. 12.—Market easier for tin shares. Carn Brea, 50 to 55; Dolcoath, 50 to 55; Cook's Kitchen, 3½ to 4; East Lovell, 2½ to 23½; East Pool, 18 to 20; Bouth Condurrow, 14 to 15; South Frances, 11 to 11½; Tincroft, 15 to 16; West Basset, 10½ to 11; West Frances, 11 to 12; Agar, 5 to 5½; Basset, 8 to 3½; Grenville, 5 to 5½; Kitty, 2½ to 3; Pewor, 15½ to 16; Uny, 1½ to 1½; West Basset, 10½ to 1½; to 25; Leadhills, 3½ to 4½; East Caradon, 2½ to 5; Leadhills, 3½ to 4½; East Caradon, 2½ to 5; Leadhills, 3½ to 4½; East Caradon, 2½ to 3; East Oreolo, 22; Loman Gravels, 11 to 11½; East Van, 1½ to 1½; Herodafoot, 2½ to 23; Leadhills, 3½ to 4½; East C

West Chiverton, 4½ to 5½; Great Laxey, 17½ to 18½; Grogwinion 3 to 3½; Wye Valley, 10s. to 15s.; West Wye Valley, 10s. to 15s.; South Condurrow, 13½ to 14½; South Frances, 10½ to 11½; Tincroft, 14½ to 15½; West Basset, 10 to 11; West Frances, 11½ to 12; Agar, 5 to 5½; Wheal Basset, 2½ to 3½; Greenville, 5 to 55½; Dolcoath, 50 to 55; Carn Brea, 52½ to 55; Peevor, 15 to 16; West Seton, 50 to 55; West Tolgus, 25 to 27; Marke Valley, 27s. 6d. to 32s. 6d.; Mellanear, 3½ to 4; Crebor, 3½ to 6; Parys Copper, 17s. to 18s.; Panulcillo Copper, 3½ to 4; Crebor, 3½ to 6; Parys Copper, 17s. to 18s.; Panulcillo Copper, 3½ to 4½; Eapar Copper, 37s. 6d. to 42s. 6d.

FRIDAY, NOV. 14.—Market generally firmer. Carn Brea, 52½ to 57½; Dolcoath, 52½ to 57½; East Caradon, 5 to 3½; East Lovell, 2½ to 2½; East Pool, 19 to 21; Great Laxey, 17½ to 18½; Grogwinion, 8 to 3½; Herodistoot, 2½ to 3; Leadhille, 3½ to 4; Mellanear, 4 to 4½; East Crebor, 22s. 6d. 27s. 6d.; Parys, 18s. 6d. to 18s. 6d.; Devon Great Consols, 4½ to 4½; South Frances, 11½ to 11½; South Condurrow, 13½ to 14½; Tankerville, 5½ to 6; Tincroft, 15½ to 16½; Yan, 21 to 22; West Assheton, 2 to 2½; West Basset, 10½ to 11½; West Chiverton, 4½ to 5; West Frances, 11 to 12; South Darren, 2½ to 3¾; Roman Gravels, 11 to 11½; West Seton, 47½ to 50; West Tolgus, 25 to 27½; West Wev Valley, 12s. 6d. to 17s. 6d.; Yes day, 2½ the 3.

M.R. WILLIAM H. H. WATSON, DEALER in RAILWAY STOCKS and MINING SHARES at net market prices, of

Address: W. H H. WATSON, 1, ST. MICHAEL'S ALLEY, CORNHILL, LONDON, E.C.

Meetings of Bublic Companies.

UNITED VAN CONSOLS AND GLYN MINING COMPANY.

An extraordinary general meeting of shareholders was held at the Guildhall Tavern, Gresham Street, yesterday,
Mr. J. C. BOLTON in the chair.

UNITED VAN CONSOLS AND GLYN MINING COMPANY.

An extraordinary general meeting of-shareholders was held at the Guidhall Tavern, Gresham Street, vesterday.

Mr. J. Cooper (the Secretary) read the notice convening the meeting, which stated that it was called for the purpose of confirming the special resolution passed at an extraordinary general meeting held on the 28th alt., resolution of the Secretary read the notice convening the the special resolution passed at an extraordinary general meeting held on the 28th alt., resolution of the original Articles of Association.

The CHAIMASY said, before moving the confirmation of the resolutions passed a fortnight or so ago, he would make a few remarks with regard to the position of the mine. With regard to the letter in the Minns Journal, last Saturday, which had created alarm in the minds of a few of the shareholders—to the effect that there were four lawaits pending by the company—the begged to state that this was a mistake. There were no lawsuits pending by this company. The liquidator of the Van Consols Company had one suit pending, and three summonses; but a summons was a very different thing to a lawsuit. It was a sharp and decisive way of bringing a febtor, or a supposed debtor, before the Chief Clerk, and getting a prompt settlement of the matter. With regard to the suit, the directors found that before anything was done, very careful accounts were made out for the Van Consols books, that a statement was prepared and submitted to an eminer connect, whose opinion is the suit of the matter. With regard to the suit, the director showed with the case the directors thought they entitled to a various adshaped that proceedings should be immediately taken, as the four gentlemen whose names were brought there are the directors thought they entitled to various shareholders in that company, leaving 3000 or dolone one, and the Van Consols Company. That being the theorem is a submitted to the surface of the different contracts brought before them, and the result was that bet

premium.

Mr. TAYLOR asked what working capital the 12,000 shares would yield after paying the debts?

The (CHAIRMAN thought the amount would be quite sufficient. He did not know the exact amount, but it would be more than 1000?.

Mr. TAYLOR thought they should have 3000?. in hand, for if an accident happened and they had to issue the remaining shares they would do so at a disadvantage. He believed that 3000?. in hand would place the company in a much more satisfactory position in every respect.

believed that 3000% in band would place the company in a much more satisfactory position in every respect.

Mr. Surron seconded the suggestion which the chairman said should have the careful consideration of the board. In the event of any accident, he thought there would be no difficulty in raising a little money, and he was sure the directors was to make the company one of the best in the country, and to do all they could to bring about that result. (Hear, hear.)

The Chairman then moved the confirmation of the resolutions passed at the meeting on Oct. 25, including the suggestions which the board adopted with respect to half-yearly meetings and accounts, and the remuneration of the directors.

Mr. Thomas esconded the motion, and added that he quite concurred in Mr. Taylor's opinion that it was desirable to have more than 1000% capital in hand. He (Mr. Thomas) had worked for two years without remuneration, and had found money to work the mine. (Hear, hear.)

The motion was carried unanimously.

On the motion of Mr. Terherne, seconded by Col. Percuyal, a vote of thanks was passed to the chairman and directors, and the meeting then closed.

SANTA BARBARA GOLD MINING COMPANY.—At a meeting of directors on Thursday, it was resolved that an interim dividend of 1s. 6d. per share on account of the current year be declared, payable on Nov. 22

MINING NOTABILIA.

MINING NOTABILIA.

THE CALLINGTON DISTRICT.—Mining is again looking better here, and renewed activity appears to have set in. South Kit Hill has gone to work, under the name of the Cornwall Great Consols. The fire was lighted at Holmbush on. Thursday, and the shaftmen engaged to go to work. The Duchy agents gave the liquidators 25 days' notice to clear out or work, and, consequently, work has been commenced. Wheal ashburton is sold, and three-fourths of the purchase money has been paid, so that it is likely to start shortly. At Old Kitt Hill a pare of men is working in the adit, and a very good tin lode has been discovered.

THE WHEAL WREY, LUDCOTT, AND NORTH TRELAWNY.—The unfortunate shareholders, after paying calls to the amount of 13s. 4d, per share, by order of the Stannaries Court, have received notice that a dividend of 4¼d. per share is returnable on the winding-up of the concern. The extraordinary proceedings connected with this affair has entirely annihilated all further mining speculations in the Liskeard district.

WEST KITTY.—The engine will be at work on Saturday (this day), and the agent reports that he expects that the water will be in fork within four weeks. There is considerable interest and not a little excitement about this property, and the success which has attended the efforts of the executive. The shares

have been inquired for on the market, but at such prices as render it impossible for any business to be done. Mr. John B. Reynolds, of Walbrook, has taken the whole of the mattera of the company in hand, and is sustained by gentlemen of influence and wealth. It is estimated that about from 30 to 40 men will be employed within a month, and considerable improvements are anticipated, especially in those levels where the appearance of the lode is so favourable.

FOREIGN MINES.

influence and wealth. It is estimated that about from 30 to 40 men will be employed within a month, and considerable improvements are anticipated, especially in those levels where the appearance of the lode is so favourable.

FOREIGN MINES.

ST. JOHN DEL REY.—Telegram from Morro Velho, dated Rio de Janeiro, Nov. 11: Produce for the month of October, 32,500 oits. =12,5931, yield, 6-3 oits. per ton.—Oitabét, 220 tons stamped in 15 days; yield, 7-0 its, per ton. Oitabét, 220 tons stamped in 15 days; yield, 7-0 its, per ton.—Oitabét, 220 tons stamped in 15 days; yield, 7-0 its, per ton.—Oitabét, 200 tons stamped in 15 days; yield, 7-0 its, per ton.—Oitabét, 200 tons stamped in 15 days; yield, 7-0 its, per ton.—Oitabét, 200 tons of ore. Refenery, 845,000. Mine much improved.

— Oct. 22: Since my last explorations in the mine have been carried on with usual regularity. The 200 cross-cut is being friven in ore of a very fair grade; the width of the ore in the present end is 5 ft. wide. A cross-cut has been started in the 200 ft. level to explore the ground underneath the oil flat chamber. It has been drifted 34 ft., west from the No. 12 chamber has been extended a total distance of 35 ft.; in the year of the control of the

wented our making as much progress as we would wish, the chokage, however, is now cleared, and air good in both inclines.—No. I Incline Shaft: Another set in, and blocked tight, and the sides lathed, &c., and three props put under the caps behind to strengthen the same.—Drainage: Fole packed, and other minor repairs made.

CHONTALES.—The directors have received advices from their manager, dated Oct. 5, who reports during the past month we have treated 1830 tons of stuff, which produced 200 cas. of gold, or an average of 2½ dwis, per ton. Total cost at the mines for September, 800;; value of the gold, 5321: loss, 2881. Last month we got into a very hard bar of ground in Estrella Mine, and for the greater part of the present month would not pay for stoping, so that I put the men to rise or cut through it. They have away gone up 95; varas, and are already in get prolitable quarts from this stope.—San Sebastian: We have stoped from the new stopes west 438 varas; this stope in the past month did not turn out as I expected, but there is every prospect now of raising profitable quarts here during the present month. We have stoped from No. 2 stopes 107 varas. We have stoped from the back of the lode, east of eastern rise, 75 varas, and cleared 20 varas through old workings to communicate the main level with the north branch referred to in July report. Total quartz raised, 1375 cars, or 1200 tons, worth on an arerage 2 dwis, per ton.—Estrella Mine: We have driven the main level 10¼ varas; the lode is 3 ft. wide, now worth 4½ dwts, per ton, and improving as if extends west. We rose in new rise 17½ varas, and holed to surface. We have stoped from No. 1 stope 155 varas. In No. 2 stopes, where we had the shoot of gold, it is very plain that this should be surface, we have stoped from No. 1 stope 155 varas, and hole do surface. We have stoped from No. 1 stope 155 varas, and hole to surface. We have stoped from No. 1 stope 155 varas, and hole to surface. We have stoped from No. 1 stope 155 varas, and hole to surface. We have

Assheton Mines .- The works at this mine, which were partially suspended in consequence of the low price of lead, are being actively resumed, and now that the price of lead has risen and become more remunerative, regular samplings of lead ore and blende will be again

remunerative, regular samplings of lead ore and blende will be again made.

GENERAL MARKETS.—Markets have been very active during the week, and a large amount of business has been done, particularly in English railways, which show a further advance all round. North-Eastern, Brighton, North British, and Caledonian have risen from 2 per cent. to 4 per cent. The traffic receipts continue to show an improvement, the North-Eastern return being an increase for the first time for many months. The high figures touched a day or two ago naturally brought in a few sellers, and prices consequently close somewhat below their best point. American and Canadian railways are still in demand, and continue to rise. Mexican railways are higher, and are, I consider, worth buying now. The foreign market has been rather dull, owing chiefly to the state of the French markets, and small amount of business doing. There was no change in the Bank rate this week. Mines have been rather quiet, but East Caradon and a few others have advanced in price.—W. H. H. Watson, 17 St. Mael'schi Alley, Cornhill, Friday Morning, Nov. 14.

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Mining Correspondence.

BRITISH MINES

BRITISH MINES.

ABERLLYN.—John Roberts, Nov. 12: I have nothing new to report this week, all the points of operation are very much the same as they have been for some time past. We have not taken down the lode in the stope on the shale for a fortnight. The stopes on the great lode are very much the same in value as they have been. We expect to hole the winze between the No. 2 and the No. 3 by the end of this week, when we shall let a stope on esch end of if, and we shall also be able to put a pare of men to drive a cross-cut at the No. 3 in the present forebreats of the end on the shale course, so as to prove the value of the great lode at that depth. The valley cross-cut is looking very kindly, there are good patches of blende and gossan. We have not done anything in the No. 2 cross-cut for the week, as the men have gone, and I have not yet relet it. The stone-breaker started to-day, and werks splendidly. The driving arrangement scenes perfect, notwithstanding the little difficulty that first appeared to make arrangements to drive from our present wheel, and fix our machine to deliver itself in the crusher-house. We are pushing on the dressing with all possible speed.

BEDFORD UNITED.—R. Goldsworthy, Nov. 5: The lode in the 138 east is about 2 ft. wide, worth 81 per fathom. The lode in the 112 east is 3 ft. wide, worth stope the stope of the 127 is worth 82, per fathom. The lode in the 128 east is a ft. wide, worth stope in 102 each, and one stope in the 127 is worth 82, per fathom. The tribute department is much the same as when last reported.

BETTWRY-COED.—Ohas. J. Sims, Nov. 13: Saturday last being our monthly setting the following bargains were set:—To stope in the back of the deep adit level, on the north part of the lode, by two men, at 128, per fathom; lode worth 15 cwts, of lead ore per fathom; lode worth 10 cwts, of lead ore per fathom; lode worth 15 cwts, of lead ore per fathom; lode worth 15 cwts, of lead ore per fathom; one worth 15 cwts, of lead ore per fathom; one worth 15 cwts, or lead ore per

or ton.

BLUE HILLS.—S. Bennetts, P. Vian, Nov. 8: In the bottom of the shaft (now nout the 42) there are some small veins of tinstuff just on the back of the lode; the lode itself is not as yet altered much since last reported on. In the 30 cast dit he lode is 1½ ft. which, and worth 6/t. to 7/t. per fathom. A stope in the bottom of the level, west of the shaft, is worth 7/t. per fathom. The tribute pitches

om of the level, west of the shaft, is worth 71, per fathom. The tribute pitches are without much change.

BODIDRIS.—H. Hotchkiss, Nov. 11: Maes-y-pwll Lode: In the 17 east we have not taken down any more of the lode since my report of last week, but are working by the side of the lead ore-bearing part in order to take down the ore by itself. We find that the ore still carries on, and hope when taken down again thall have a further improvement. The 30, west of shaft, is improving again for lead, and the lode is looking much more kindly. Other points of operation are without change to notice since last week. Everything is progressing regularly and satisfactority.

— Nov. 13: Have taken down lode again in 17 east, and find it further improved for lead ore; best sight as yet seen in Bodidris Mine. Further particulars in a post or two.

proved for lead ore; best sight as yet seen in Boduris Ame. Factors parties in a post or two.

CAMBRIAN MINES.—Captain Thomas Glauville, Nov. 8: Esgair-freaturi: Eastern Shaft: The shaft sinking below the 86 yard level will yield 2 tons of copper ore per yard. The lode in the 85 yard level east will produce 2 tons of copper ore per yard. The stopes in the back of the 86 yard level will yield 3 tons of copper ore per yard. The stopes in the back of the 70 yard level east will produce 3 tons of copper ore per yard. We are sending off another lot of copper to Rwansen.

per ore per yard. The stopes in the back of the 85 yard level east will produce 3 tons of copper ore per yard. The stopes in the back of the 70 yard level east will produce 3 tons of copper ore per yard. We are sending off another lot of copper to 8 wansea.

CLEMENTINA.—J. Roberts, Wm. Sandoe, Nov. 11: We have completed the clearing the roadside shaft and all the levels. We found the eastern end driven close on 10 fathoms from the shaft, and from appearances they had a good lode for that length. The ground in the roof is all stoped away, and they attempted to work the bottom also but could not succeed with the quickness of the water. We dug down under water to see what they left behind, and found splendid lead in different places, but we could do no more than they till we sink the shaft, and so drain the ground. This we purpose doing as soon as the men have completed dividing down the shaft to the level, which we calculate will be completed by the next setting-day, and in order to facilitate this work we shall try to arrange to let the whole 10-fm. lift in one contract. Referring again to the castern end, we drove in this about 1½ fathom, but as we could not obtain much back by the driving we suspended it, and shall extend the deeper level as soon as the shaft is down the above-mamed depth. In the 34, at the engine-shaft, we have driven in the north end a little more than 2 fathoms; the lode during that time was producing saving work for lead, but has since then very much improved, and will now yield from 10 to 15 cwts, of lead to the fathom. This fathom is the shoot of the shoot of ore worked in the upper levels. The source and we are driven nearly I fathom; the support of the shoot of the 25 fm. level. The lode, however, is showing good spots of add, and may we get more reproducitive of that ore before we drive that distance. The western end, in the 25, which we started as a trial from the intersection with the north and south lode, we have driven nearly I fathom; the support of the producing of the shade of

oped, and the junction of granite and killas reached, great success will attend he undertaking.

CROOK BURN.—W. Vipond, Nov. 3: The men continue both the sinking and valling of the shaft, two shifts sinking and one walling in the 24 hours. They will somplete the walling of the shaft next week. They have gone through a limestone about 3 it. thick, with sparry threads or branches running about in it, both these and the dip of the beds indicate a vein not far off the shaft.

CWMYSTWITH.—Nov. 12: We have now reached the point where the new ode and Michell's came together. Owing to our having the two lodes to contend with—which are very hard—our progress during the past week has been rather dow. Near the junction the lode contains a little more lead, and is very large. We shall now leave Michell's lode to the north, and follow the new lode, which has made a very sharp turn to the south, as it should do to maintain its right bearing, it being shifted somewhat to the north by the inducace of Michell's ode. What effect the separation of the lodes will have to their value we are at propared to say, but a little time will prove. We are progressing fairly with dill's lower level, and shall communicate in the coming month. Our water is very much less.

ery much less.

DENBIGHSHIRE CONSOLIDATED.—R, Prince, A. Francis, Nov. 13: A great
hanze has taken place during the last few days in the 112 cast main lode: from

DNBIGHSHIRE CONSOLIDATED.—R, Prince, A. Francis, Nov. 13: A great change has taken place during the last few days in the 112 east main lode; form it we are now putting by leadstaff for the dressing-floors. The lode is better defined, and will, we think, further improve as we advance. In the new cross-cut north we are passing through highly mineralised ground. The hand rock-drill having artived we hope to give it an early and thorough trial, and trust it will give satisfaction. In the 68 level west we are now close to the points where, as before stated, we expect to intersect a great body of ore. The tribute pitch shows well.

The color of the store of the spurt wheels in the gearing of the air compressor has given before stated, we expect to intersect a great body of ore. The tribute pitch shows well.

The color of the store of the spurt wheels in the gearing of the air compressor has given before started, we expect to intersect a great body of ore. The tribute pitch shows well.

The color of the store of the spurt wheels in the gearing of the air compressor has given way, and it will take a week to get it re-cast and at work again; during that way, and it will take a week to get it re-cast and at work again; during that the store of the store of the spurt way, and it will take a week to get it re-cast and at work again; during that the store of the store of the spurt way, and it will take a week to get it re-cast and at work again; during that way, and it will take a week to get it re-cast and at work again; during that way, and it will take a week to get it re-cast and at work again; during that way, and it will take a week to get it re-cast and at work again; during that way, and it will take a week to get it re-cast and at work again; during that way, and it will take a week to get it re-cast and at work again; during the way, and it will take a week to get it re-cast and at work again; during the way, and it will take a week to get it re-cast and at work again; during the way that the color of the bedge an

hope that our dressing, with all other operations, will go on without hindrance or delay.

DUBBY SYKE.—W. Vipond, Nov. 2: There is not much change in it e shaft here. The whin is rather more mixed in with the barytes in the vein or branch, with spots of ore. The wates does not seem to increase at all, and the sinking is apparently going on very well. The men have sunk last month 1 fm. 1 ft., and the shaft is now down altogether 9 fms. 2 ft.

EAST CHIVERTON.—R. Southey, Nov. 13: Since the last general meeting of the shareholders we have completed sinking the engine-shaft to the 90, cased and divided the same, put in footway, shaft sollar, &c. We have now commenced to drive a cross-cut south at this level to intersect the lode, by six men, at 2½ 10s. per fm., which we hope to cut during the ensuing month. Some of the men that were engaged in sinking the shaft will now be available for driving and stoping the back of the 74, which we purpose doing forthwith. The ground in the 45 cross-cut south is easier for driving, and better progress may be looked forward to in future towards cutting the lode; the end is being driven by four men, at 104, per fathom. Since the change in the pitwork our engine continues to work at a very easy cost as regards consumption of coal, and powerful enough to put us to the 120.

EAST DARREN.—Nov. 12: The lode in the 104, east of cross-cut south, is at present disordered by a cross joint, now yielding 10 cwts. of ore per fathom. The lode in the winze sinking under the 92, west of cross-cut, is 5 ft. wide, yielding saving work for dressing. The driving in the 92, west of cross-cut, is suspended while the winze is being sunk. The 12, west of eastern end, is let to drive on tribute in stoping. Stope over the 92, east of cross-cut, on south lode, is 2 ft. wide, yielding 10 cwts. of cross-cut, on south lode, is 2 ft. wide or cross-cut, is suspended for the present. Lode in the 80, east of cross-cut, enear Taylor's shaft, is large, yielding 17 cwts. of lead ore per fathom. Stope over the 80 as

EAST LONGSTONE—H. Harris, Nov. 10: The men are pushing on the adit level with all speed; troggress in nearing the east and west lode. I shall put on extra men next week.

EAST ROMAN GRAVELS.—A. Waters, Nov. 13: The 97 cross-cut is driven about 5½ fins., but we have not yet cut the main part of the lode. Considerable water is flowing out of the forebreast—hence we must be near the lode. We are driving here by nine men, at 14½, per fathom. The 88 south is being driven by four men, at 64. per fathom, lode not to value. The 75 south, by four men, at 44, per fathom and 20s, per ton, is worth 1½ ton per fathom. The pitch in the back of 86 south, by two men, at 54. 10s, per ton, is worth ¾ per fathom. The pitch in 75 south, by two men, at 54. 10s, per ton, is worth ¾ ton per fathom. No. 2 pitch, south of ditto, by four men, at 54 per ton, is worth ¼ ton per fathom. No. 2 pitch, south of ditto, by four men, at 54 per ton, is worth 1 ton per fm. No. 3 pitch, south of ditto, by four men, at 54 per ton, is worth 1 ton per fm. No. 4 pitch in ditto, by two men, at 54. 10s, per fathom, is worth 1½ ton per fathom. Pitch in bottom of 50 north, by three men, at 54 per ton, is worth 1½ ton per fathom. Pitch in bottom of 50 north, by three men, at 54 per ton, is worth 1½ ton per fathom. Pitch in bottom of 50, south of shaft, by two men, at 54. 10s, per ton, is worth 12 cwts, per fathom. Pitch in bottom of 46, by two men, at 54. 10s, per ton, worth 12 cwts, per fathom. Pitch in bottom of 46, by two men, at 54. 10s, per ton, worth 12 cwts, per fathom. Pitch in bottom of 46, by two men, at 54. 10s, per ton, worth 12 cwts, per fathom. Pitch in bottom of 46, by two men, at 54. 10s, per ton, worth 12 cwts, per fathom. Pitch in bottom of 46, by two men, at 54. 10s, per ton, worth 12 cwts, per fathom. Pitch in bottom of 46, by two men, at 54. 10s, per ton, worth 14, ton per fathom. Pitch in bottom of 46, by two men, at 54. 10s, per ton, worth 14, ton per fathom. Pitch in bottom of 46, by two men, at 54. 10s, per ton, worth 14, ton per fa

out about their usual quantities of ore, varying in value from 148. 65.00 on the 20th inst.

GLENROY.—R. Rowe, Nov. 12: I am glad to be able to report an improvement in the bottom level south which has taken place this week; the lode is still 4 ft. wide, and on the footwall there is now come in a sparry course, misstell 4 ft. wide, and on the footwall there is now come in a sparry course, misstell 4 ft. wide, and bursting with water—it is at this moment quite a change for the better. In the north end the lode is about 3½ feet wide, containing a little blende and copper.

GORSEDD AND MERILLYN.—W. Edwards, Nov. 13: The 70 east level has advanced over 2 yards since last report, but the ground has become very stiff for driving, although the lead obtained therefrom continues in the same quantity as before, very hard, but of a rich nature. The tributers are doing better. I have got six men sinking a sump from the 60, which will be completed this week. The only change in the 90 is that the beds are dipping east very much, a sign that we are approaching the run of ore ground above. We are busy dressing lead.

GREAT HOLWAY.—Nov. 13: Roskell's Shaft: The water continues to drain into the shaft from the surrounding country, and the engine works splendidly, and I hope to report good progress with the sinking. The men are proceeding with cutting the ground between this shaft and that at level engine. When this operation is complete we shall be able to work the ore proved at the 80, which is likely to turn out well.—Garden Shaft: The stoping of No. 5 (roof of 55 yard level) looks well, turning out rich lead and blende. There is no alteration to announce in the sinking of No. 1 (below the 55 yard level west). Mo notice an improvement in the driving at No. 6 (the 55 yard level west). We notice an improvement in the driving at No. 6 (the 55 yard level west), and are expecting a good discovery.

GREAT LAXEY.—F. Reddicliffe, Nov. 12: In the bottom of Welsh shaft, sink-

level) looks well, turning out rich lead and blende. There is no atteration to announce in the sinking of No. 1 (below the 55 yard level west). We notice an improvement in the driving at No. 6 (the 55 yard level west), and are expecting a good discovery.

GREAT LAXEY.—F. Reddicliffe, Nov. 12: In the bottom of Welsh shaft, sinking below the 247, the lode is the same in character as for some time past, but taking a somewhat more perpendicular course, and is leaving the shaft at present. The 247 end, north of this shaft, is a little further improved; present value 152, per fathom. The winze sunk in the level above, about 7 fms. in advance of this end, is deep enough, and driving is commenced from the bottom of it towards the end, so that a communication will soon be effected, and the ventilation at the bottom level be thereby rendered perfectly good. There is a wide lode in the 235 end, south of engine-shaft, but it is still without ore to value. In the end going north at this level the part of the lode carried is a little coarse just now, and not producing much ore, but we look for a speedy improvement. The stopes in roof of this level are without change. In the 220 end north the lode is now recevering itself from a short nip of only a few feet in length; the present value is 18t, per fathom. The three stopes in roof of this level are worth 30t, 15t., and 12t. per fathom respectively. The lode in the 210 end is worth 30t, per fathom, and the stope in the sole worth 20t, per fathom. In the 200 the stope in sole is worth 20t, per fathom, and the stope in roof of the 165 south is at present rather poor; but a stope in roof of the 90 is worth 30t, per fathom. The other places without change.—Dumbell's: The rise in roof of 215 north is worth 40t, per fathom. The rich lode in the 200 end recently fell entirely off, but it is again improving, and is worth at present 15t, per fathom. The stope in sole of the sole in the 170 end occasionally shows signs of improvement, which is the case at present, and value 6t, per fatho

fathom will yield 12 cwts. to the fathom. We shall let a stope in the back of the 10 south of shaft on Saturday, also one above adit north of shaft. The main adit north is in shale and lead capels, the latter producing a little lead, but not to value. I have agreed to let the Cwm Llanerch cross-cut adit to two men for 1 fm. at 92. per fathom; this level is in porphyry, through which we have from 5 to 6 fms. to drive intersect the Cwm Llanerch lode. Surface operations pro gressing regularly.

HERODSFOOT.—P. Temby, Nov. 13: There is no change of importance to notice this week in any part of the mine. The lode in the engine-shaft is draining the water from tve 205 south, where we shall commence to sink a winze as soon as possible, which I calculate will reach the 215 against the end is forth for ventilation; the lode is still large, and of much the same value as last week. In the 205 north no lode has been taken down this week. The new part of the lode opening in the 190 north is 2½ ft. wide; a fine looking lode. All other points of operation are without change.

as possible, which I calculate will reach the 215 against the end is forth for ventilation; the lode is still large, and of much the same value as last week. In the 205 north no lode has been taken down this week. The new part of the lode opening in the 190 north is 2½ ft. wide; a fine looking lode. All other points of operation are without change.

HINGSTON DOWN.—Thos. Richards, Nov. 10: We have commenced driving both east and west on the lode cut lately in the end of the adit south, and as far as yet opened the appearances are much the same as advised on the 4th inst. I will write more fully on it on Wednesday, by which time we shall have opened a few feet on it each way.

— Thos. Richards, Nov. 12: I beg to inform you that in opening east and west of the adit level south the lode lately cut is of a large size, containing capel, quartz, prian, and mundic, with a little grey, black, red oxide, green carbonate, and good stones of yellow copper ore; it is of great promise, and from its position it is probable it is the Bunny lode worked on in the Clitters' adit mine.

KILLIFRETH.—John Micheli, Nov. 12: The lode in the eastern end of the engine-shaft, sinking below the 50, is worth 30, per fathom for tin, and with the appearance of its extending through the shaft in a little further sinking. The 50 east is suspended for the present. The men are rising to communicate with the 70 for ventilation. The lode in the rise is worth 52, per fathom. The stope in the back of this level is worth 53, per fathom. The lode in the row is a mice-looking lode, and I expect a considerable improvement in this end shortly; rich orestuff has been broken from the lode to-day, and everything points, as I have said, to a productive lode here. The lode in the 20, above adit, is surrounded by a good-looking country rock, and I shall be disappointed if we do not make a discovery as we go forward here shortly. The said ends are going south in a straight line towards the old Bog Mine, and I consider the chances of success between the present

The rise in back of the \$\frac{8}\text{, on south-east part of lode, was put ap 2 fms. 2 ft. 4 in., lode 2 ft. wide, yielding 1½ fon of ore per fathom. The rise in the back of the 70, west of Gundry's shaft, was put up 1 fm. 4 ft. 6 in., lode 4 ft. wide, yielding 3 tons of ore per fathom. We shall sample on Tuesday next about 490 tons of copper ore.

MINERAL CORPORATION OF GREAT BRITAIN.—William Bennetts, Nov. 13; HAFKA, HIGH HAFKA, and GREAT D'ERESHY: There is nothing new calling for special remark at our higher mines, all is going on as usual, and we are looking well throughout. At Great D'Eresby deep add the ground as we advance into the mountain becomes, as we expected, harder. The machine drills continue to work well, and I have let the driving of the adit to a full pare of six men to the end of the month at 31. 50s. per fm., the adit to be carried 7 ft. high by 5 ft. in width, the men to pay for the pay for the

on it afterwards on account of too much water. This cirving will be a good trial, as it will intersect and drain the lode 15 fms. deeper than the old shallow workings.

NEWTON SILVER (Harrowbarrow).—H. Bennett, Nov. 10: The 40 cross-cut to drive north by six men the month, at 7l. 15s, per fathom. The 40 fm. level, to drive cast of Cook's shaft, by six men, the month, at 3l. per fathom; the lode in this end has much improved in appearance during the last month, and in the present end is about 2½ ft. wide, and in about 6 ft. or 8 ft. more driving the north and south parts of the lode will come together. There is more water than usual issuing from the lode. The 20, to drive east of Cook's shaft, by four men, the month, at 4l. 15s, per fathom; the lode still maintains a promising character, and is about 15 in, wide, with occasional stones of copper ore and a little silver, but not to value. We have not yet reached the junction referred to in my last report. We shall commence to-morrow to drive north on the cross-course. The rise in the back of the shallow adit by six men; the lode is about 2½ ft. wide, and is composed of carbonate of iron, sulphur, mundic, and gossan, and to-day I have broken some good stones of lead and silver from it. I have had one of these stones assayed, and it produced nearly 450 cas. of silver to the ton. From the improved appearance of the lode in the 40 cast and in the shallow adit I consider our prospects most encouraging. The tributers still continue to get a little silver from the burrows by means of concentration, and we have just fixed and commenced to work the additional appliances refered to in my last report.

NORTH TRESKERBY.—Martin George. Nov. 18: The lode in Doctor's engine.

report.

NORPH TRESKERBY.—Martin George, Nov. 18: The lode in Doctor's engineshaft, sinking below the 36, is 4½ ft. wide, composed of quarts, mundic, and
good atones of copper ore with a good appearance. The lode in the 35, driving
west of engine-shaft, still continue to yield mundic and copper one, but not to
value. The lode in the 24, driving west of the cross-course, is 3½ ft. wide, and
worth ½ ton of copper ore perfathom. The lode in the wine sinking below the
value. The lode in the 24, driving west of the cross-course, is 3½ ft. wide, and
worth ½ ton of copper ore perfathom. The lode in the rise in the back
of the 12, east of engine-shaft, is 4½ ft. wide, and worth 1 ton of copper ore per
fathom. The lode in the shallow level, driving west of the cross-course, is 2½ ft.
wide, and worth 1 ton of copper ore per fathom. The lode in the stope in the
bottom of the shallow level is 3½ ft. wide, and worth 1 ton of copper ore per
fathom. I have no change to notice in the tribute department since last report.
The machinery is all in good working order, and everything is progressing regularly and satisfactorily.

NOPPUR DE EPERSY MOUNTAIN —No. 2. The men have to day taken

larly and satisfactorily.

NORTH DE ERESBY MOUNTAIN.—Nov. 8: The men have to-day taken down some of the lode east of the drivage of No. 2 level, and I am pleased to tell you that the lode never leoked so well as at present. I will send on a box of specimens by Monday's train.

— Nov. 12: Just come from the mine to catch the post. I am pleased to

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say that the lode in No. 2 adit end is looking well—never looked so well as at present.

Nor. 15, 1879.]

say that the lode in No. 2 adit end is looking well—never looked so well as at present.

Activity of the productive bargains being equal in value to last week a report, and all work is being carried on with regularity. Strange to say for this time of year we are, with the reat, beginning to feel the want of more water, and cannot drive our dressing machinery as last as we ought to without discontinuing the sharlost, and putting them in as soon as they arrive here.

PARENS.—T. Mitchell, Nov. 12: The 90 cross-cut south is still intermixed with suphur and strong patches or copper one. Although the ground is land, if the singular day strong patches are the suphur and strong patches or copper one. Although the ground is land, if the singular day strong the strong patches are the suphur and strong patches or copper one. Although the ground is land, if the singular day that it is a suphur and strong patches and the suphur and strong patches are the suphur and strong patches. The suphur and strong patches are the suphur and strong patches and the suphur and strong patches are the suphur and strong patches are suphur and the suphur and strong patches are suphur and suphur

more lode will be taken down. Our setting and this types of the set flurastaley.

SOUTH TOLOARNE.—W. Rich, J. Knotwell, Nov. 11: The 36 cross-cut south is in congenial looking granite, and the cross-course on which the level is being driven has a kindly appearance. The flat tin lode is standing south, and we hope, when intersected near this cross-course, it will be found to be productive. We hope to communicate the rise in the back of the 36 with the winze in three or

when intersected near this cross-course, it will be found to be productive. We hope to communicate the rise in the back of the 35 with the winze in three or four weeks time.

TAMAR (Silver-Lead and Fluor-Spar).—R. Goldsworthy, Nov. 13: Setting Report: To drive the 57 cross-cut east, by two men, at 61. per fathom. To drive the 57 cross-cut east, by two men, at 61. per fathom. To drive the 57 cross-cut east, by two men, at 61. per fathom. To drive the 27 south, by four men, at 71. 10s. per fathom; the lode has a very promising appearance, producing saving work for lead, and 3 tons of fluor-spar per fathom. To drive the 27 south, by two men, at 21. per fathom; the part of the lode we are driving on is small, but the ground being easy for driving we purpose to push this out to get into more settled ground, and then cross-cut east to see if the main part of the lode is standing in that direction. Four tribute pitches to eight men—one in the back of the 57, and three in the back of the 37; each at 91. per ton for silver-lead, 12s. per ton for best fluor-spar, and 6s. per ton for seconds.

TANKERVILLE.—A. Waters, Nov. 13: Settling Report: The 220 to drive east of Watson's shaft, by six men, at 92. per fathom. The 320 west, by four men, at 101. 10s. per fathom; worth 1 10n per fathom. No. 2 stope east of ditto, by four men, at 52. 10s. per fathom; worth 1 52 ton per fathom. No. 2 stope east of ditto, by four men, at 52. 10s. per fathom; worth 1 10s. per fathom. The 206 west, by four men, at 52. 10s. per fathom; worth 1 ton per fathom. The 206 cross-cut north to prove lode, by four men, at 92. per fathom. No. 3 stope, by four men, at 53. 10s. per fathom is worth 154 ton per fathom. No. 3 stope, by four men, at 54. 10s. per fathom; worth 154 ton per fathom. No. 3 stope, by four men, at 54. 10s. per fathom; worth 154 ton per fathom. No. 3 stope, by four men, at 54. 10s. per fathom; worth 154 ton per fathom. No. 3 stope, by four men, at 54. 10s. per fathom; worth 154 ton per fathom. No. 3 stope, by four men, at 54. 10s. pe

r ton. TEESDALE.—Nov. 6: The west end forehead, though now standing, is about promising looking a working as can be desired; it is almost a shame such a TEESDALE.—Nov. 6: The west end forehead, though now standing, is about as promising looking a working as can be desired; it is almost a shame such a place should stand a day. The west stope No. 1 is improved very much since last week, and has been regularly good since the day I left; it is certainly richer than it has ever been before, and more evenly distributed the full height of the working—12 feet. No. 2 is still poor, though I think payable; they have not driven up to where the best lead ore is standing. The rise does not improve rapidly enough to make one feel justified to try it further up under the present circumstances, though it is a good trial.—East Branch: The upper portion, immediately under the Old Man, is turned very poor; there is payable ore lower down, and it is still good to work, and I think payable to continue for the present—they have got a lot of good strong bouse. All the lead ore for the London Company is dressed, awaiting delivery; 18 bings have gone. They were intending having it all away by to-day, but I hear some misfortune has overtaken the cartmen; will commence loading the next parcel on Saturday.

to-day, but Thearsome mistoreque has overconed under the ading the next parcel on Saturday.

TEMPLE.—Nov. 12: In driving No. 2 level west the lode presents very favour ble indications of again becoming productive of lead of good quality and in the produce is at present too irregular and in minerative quantity, although the produce is at present too irregular and insufficient to be valued in the usual manner. Some very fair specimens of ore are broken whenever the lode is taken down, and the matrix consists of quarts, carbonate of lime, and the other minerals which have invariably accompanied the lead ore in the richer portions of the lode hitherto explored. A constant and considerable stream of water is issuing from the end, which is now taking a direction slightly more to the north than for some months past. The general appearance of the lode indicates the near approach to a course of ore, and it is confidently expected that lead of value will be met with within the next few fathoms driving. The stopes throughout the mine are yielding an average of 1 ton of lead ore per fathom. That in the back of No. 3 level is found to be extending further west than the ore was found in the level. At surface the 40-ft, water-wheel is erected, and the men are now erecting the drawing-machine and incline. The massons are building loading for the compressor. The weather is favourable.

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water-wheel is erected, and the men are now erecting the drawing-machine and incline. The masons are building leading for the compressor. The weather is favourable.

TNN-Y-FRON.—E. Jones, Nov. 11: We have trammed the stuff from the stope cast of the winze, where we rose up to the old workings. We have commenced in the second stope west of adit cross-cut, where we have a splendid mixture of lead and blende for about 4 ft. wide, and which we shall be able to place a proper value upon as to its produce when we have opened upon it a little more.

WEST ASSHETON.—J. Garland, Nov. 12: The 70 fm. level west was driven during the four weeks ending on Saturday last 4 fms. 5 ft. 8 in. The ground has become much easier for driving, and the lode, which is now 2 ft. wide, and composed of killas aud mild quartz, with occasional strings of lead ore, is more like our ore-bearing rock. Hunt's cross-cut, in the 60 west, was driven 3 fms. 2 ft. 11 in., the total length now being 6 fms. 1 ft. 3 in. Except that the ground is slightly harder there is no change to notice. The driving of the 60 west will now be resumed on the north or hanging aide of the lode. A new tribute pitch, a few fathoms behind the end, is turning out very well. Two pitches in the back of the 50 are yielding well, in one of which there is a lode worth 1 ton, and in the other 2 to 3 tons of lead ore per fathom. The 40 west was driven 2 fms. 2 ft. 5 in.; the lode is about 1 ft, wide, and in the last few feet has yielded good

stones of lead ore. The lode in No. 2 stope (back of 40 west) has improved throughout the whole length of the stope—7½ fms.—and now yields 2½ tons per fathom. A pitch in the back of this level a few fathoms west of boundary cross-cut is yielding ore in paying quantity. The 30, east of footway rise, was driven 5 fms. 1 ft. 9 in.; the lode is 2½ ft. wide, and unproductive. The 30, east of footway rise, was driven 5 fms. 1 ft. 9 in.; the lode is 2½ ft. wide, and unproductive. The 30, the state of the state of

3 tons per fathom. No, 2 stope, above referred to, is a few fathoms west of this send, which is, therefore, going forward over a good source of ore. We have not yet inished dressing last month's lead ore, but we expect to sample over 50 tons of blende.

WEST HIVERON.—R. Southey, Wm. Roberts, J. Moyle, Nov. 13: Batter's Shalt. The lode in the 170, west of shalt, is 3½ ft. wide, producing good stones of the control of the co

of copper ore.

WEST WHEAL PEEVOR.—W. T. White, Nov. 10: The sinking of Michell's engine-shaft is now completed to the 35, and to-day the men are set to cross-cut to the lode at that depth. The cross-cut is to be driven by six men 10 fms. certain or cut the lode, at 77, per fathom, that being about the distance we expect to intersect it. This will be looked forward to with great expectation, being a very important point, and judging from the ground generally, and the run of the with. The lode in the winze sinking below the 25 is without change since last reported. This winze will be down to the 35 just about the time the cross-cut started at that level will be in, when communication will at once be effected and stoping ground made available. I cannot speak of any alteration in the lode in 25 west. It still continues to be productive. The men are still engaged in imbering up the trial shaft, which we hope to complete this week, when sinking will at once be resumed.

WHEAL CREBOR.—John Andrews, Nov. 11: The lode at the 120, east of cross-cut still worth 801, per fathom. West of cross-cut at the same level it is worth 101, per fathom. There is no change in the 108 east. The lode in the stope in the back of the 108 is worth 102, per fathom. The new lode to the 108, east of cross-cut has declined a little in value during the past week, and is now worth 151, per fathom. The re is no change in the 48 cross-cut south, nor in the new shaft. WHEAL OREBOR.—John Andrews, Nov. 13: There is little or no change in the limine since I worte you last, but every point is looking equally as well as reported on Tuesday.

WHEAL GRENVILLE.—T. Hodge, Nov. 12: Goold's shaft is going down becopper ore.
WEST WHEAL PEEVOR.—W. T. White, Nov. 10: The sinking of Michell's

13. per lathom. The stope in the back of the 108 on new loce is worth 40. per lathom. There is no change in the 48 cross-cut south, nor in the new shaft.

WHEAL OKEBOR.—John Andrews, Nov. 13: There is little or no change in the mine since I wrote you last, but every point is looking equally as well as reported on Tuesday.

WHEAL GRENVILLE.—T. Hodge, Nov. 12: Goold's shaft is going down below the 165 with fair speed. The lode in the 165 east end is improving as we extend. The rise in back of said level is up over 5 fms., the lode in which is worth 82. per fathom, The 150 east end is worth 9. per fathom; the lode is letting out much water. The rise in back of said level is up over 5 fms., the lode is letting out much water. The rise in back of said level worth 9. per fathom; the lode is letting out much water. The rise in back of said level worth 82. per fm. The 140 east end is worth 102. per fm. No other change.

WHEAL JANE.—R. Southey, Nov. 13: The progress made here during the past month is very satisfactory. A new 12-in. engine is being put in to drive the stonebreaker in place of a 9-in,, which was taken out to work the jigger; which will be ready on or about the end of the week; meanwhile a third jigger is being erected, which we consider to be quite sufficient to treat all the mineral from 50 heads with ease. An additional 12-head stamps will shortly set to work on rough and burnt leavings. Underground operations much as usual. A large section of stoping ground is being laid open, which can be taken away at a cheap rate when the rise in the back of the shallow level is communicated with the stopes. This we hope to accomplish in about two months from the present date.

WHEAL PEEVOR.—W. T. White, J. Pryor, Nov. 10: Good progress is being made in sinking the engine-shaft below 80. The lode in each of the ends driving west.—the 60, 70, 60, 48, 36, and 28—are without change, all of which are looking well. The rise in the back of the 36, which is now up above the 28, still holds good and maintains its former val

wide, producing a little copper ore not sufficient to value, but looking very promising.

WHEAL UNY.—Wm. Rich, Matthew Rogers, Nov. 10: The south part of the lode in the 130 west is very hard and tedious for cutting through; so far as yet seen, it is not very productive for fin. The 130 end, east of King's, has a kindly appearance, and yields good stones of tin. In the 160 end, east of Goodinge's, there is an increase of water, coming from the north side of the level. We have set the men to put out a cross-cut north to prove whether the main part of the lode is standing in that direction, The 150, west of incline shaft, is worth 97, per fathom. The 172 end east is in easy ground, but the lode is unproductive. The is nothing new in the 172 cross-cut south.

MARKET ECHOES, AND MINING MATTERS.

Although for the moment the rise in tin has been checked, a very large business continues to be done every account in mining shares. Investors are now commencing steadily to buy, and any mine that appears to be selling cheaply on the market, and whose prospects are fairly good—although its merits may have been overlooked for many months past—is now sought after, and the shares taken off the market, at steadily enhancing quotations. This is especially the case with the very low-priced shares—those selling at a few shillings each; and within the past fortnight two or three of this class, and it is not a numerous one, have risen cent. per cent., and yet even now are scercely above 10s. per share. Prominent amongst such shares have been the Pestarena (Gold), which from 3s. 6d. to 4s. 6d. a fortnight ago have advanced to double that price, and are now in active demand. Many have expressed surprise that the shares have been so long neglected, for the mines are in full and profitable work, and under most able management. What has weighed down the

active demand. Many have expressed surprise that the shares have been so long neglected, for the mines are in full and profitable work, and under most able management. What has weighed down the price, however, has been the debt of about 20,000%, and the preference capital of 32,000%. It is hoped that now the debt may be reduced, as the net profit for the nine months ending June last was was nearly 3000%, on a yield of gold to the value of 15,000%, against the same amount of profit on a yield of gold to the value of 17,000% for the preceding treeke months. The property is, therefore, increasing in yield and profit. Anyone studying the accounts could see at a glance that at 3s. 5d. to 4s. 5d. the risk in purchasing the shares (which, by-the-bye, are 3f. full-yaid) was reduced to a minimum, whilst the chances of a rise was very great in the present buovant state of the market. It has been created by the general improvement in metals, and shares have doubled in value.

There is another cheap gold mine on the market selling under 10s., and that is Javali. In this company the financial position is better than Pestarena, and it is a well-managed concern also. The shares should be looked after by investors.

Owing to the firmness of lead there is a steadily growing demand for lead will certainly be much higher in the spring of next year, and it is difficult to see what there is to prevent an early rise to 20% in the metal. Therefore, an investment in sound lead shares should show very satisfactory fresults in six months time, and if only a discriminating selection is made by the investor the chances of loss are very small compared to those of a substantial rise. In our own opinion the rise in lead shares has scargely even commenced.

A word about tin. Although just now the market for that metal is lower the trade prospects are moderately good. It is as well that the late advance was checked, for the price, owing to enormous speculation, was being forced up too quickly. We have good grounds for believing in a rise from

INVESTMENT NOTES.

INVESTMENT NOTES.

The fortnightly settlement has passed off satisfactorily, but has curtailed fresh transactions. There is somewhat of a lull in the tin market; but while the price remains at 50l. per ton good profits can be made, and it is rather to be hoped that this figure will be steadily maintained than that there should be a rapid and speculative advance, to be followed by a sudden reaction. Lead keeps firm, and a better price even will be obtained in a few months. This is almost an absolute certainty. The ministerial speeches at the Guidhall were very reassuring as to the future of trade and commerce, and the opinion of so high an authority as the British Government on such a subject may well be relied on. With the imminent advance in lead investors would, therefore, do well to give greater attention to lead mines. A selection of shares may be made, all of which will probably be higher in a short time; at any inte, by dividing the risk in (say) half-a-dozen mines, the outlay is sure to result in profit in some of them. A purchase might be made in Roman Gravels, Leadhills, Herodafoot, Pandora, D'Eresby Mountain, D'Eresby Consols, and North D'Eresby Mountain. The last three mines are likely to attract considerable notice in a very short time. There has been a good business done in D'Eresby Mountain and North D'Eresby Mountain shares. The latter mine never looked better, and some fine lead ground is being opened up in No. 2 adit level—at present shares can be bought at 20s. each fully paid; but, considering the bright prospects and almost unexampled facilities for developing and working the mine, the shares will not probably be obtainable at such a cheap price much longer.

The object such and a such a cheap price much longer.

The Block Exchange markets have again been very buoyant.

Alfeld Eroadstreet, Nor. 34.

nportant rise. The Stock Exchange markets have again been very buoyant. Old Broad-street, Nov. 14.

THE WEEK.

THE WEEK.

SATURDAY, Nov. 8.—Home railways opened flat, and mostly left off at a substantial decline. York, A, receded quite 2, closing 121½ to 122. Many accounts were closed from fear of prices being worse on Monday, which is the last day of the present account, also Lord Mayor's Day. Brighton, A, fluctuated between 129½ and 130½, flundly closing 130¾. Monday's traffic is expected to be good. East London Debentures were in strong demand in expectation of some arrangement being made shortly for the payment of arrears of interest. The rise averaged from 2½ to 3½. Nearly all American securities were lower. Illinois Central fell to 100. Atlantic Leased Bonds, 1673, receded 2, closing 29½ to 30½. In mining shares considerable business was done in Flagstaff. Early in the day shares were firm at 1½, but ultimately declined to 1.

Monday.—The markets were steadier than they have been for the last two or three days, no heavy selling being attempted. Midland, York, A, and Great Western all closed from ½ to 1 higher. The American market was favourably affected by the fall in New York of the discount rate from 7 per cent. to 4½ per cent. Atlantic and Great Western Second Mortgage and Leased Lines, 1873, both closed 1 better, while the advance in the First Mortgage was as much as 1½. Reading shares rose to \$23. In mining shares a rather large business was done. Pestarena shares were in active demand, advancing to 85, 8s. At first Flagstaffs were duil at 1½, but being largely bid for railied to 1½, 1½. The revenue account of the New Quebrada Company issued to-day shows a defect of nearly 3000.

30001.

Tursday —Home rallways opened firm, and in the afternoon when the bulk of the stocks had been carried over, they went up with a rush. Brighton, A, ran up from 130% to 133; York, A, from 122% to 124; and Midland from 134 to 136. North-Eastern was a very firm market, and after being dealt in at 144%, finally closed at 146%. The contangoes charged were very stiff, accordingly all the rise registered was not clear profit to the operator. In Midland, North-Eastern, Great Western, and Dover, A, this change amounted to quite ½ per cent., being equivalent to quite 61. 5s. per 10000. stock. Atlantic and Great Western securities were in favour again, the First and Second Mortgage advancing 1½.

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The Mining Market: Brices of Metals, Ores, &c.

META	L MARKET-LONDON, Nov. 14, 1879.
IRON. & S. d.	TIN. & s. d. & s. d. English, ingot, f.o.b (nominal) , bars ,, refined , Banca 92 0 0 (nom.)
, in Tyne or Tees 6 5 0— , Bwedish, London 9 10 0— Rails, Welsh, at works 6 0 0— Bheets, Staff., in London 8 10 0— 9 10 0 Plates, ship, in London 6 10 0— 7 0 Hoops, Staff., in Lon, 7 0 0— 7 Nall rods, Staff., in Lon, 7 0 0— 7 10	Straits
English, spring	Wallaroo
English, pig, common17 0 0- ", L.B	Wire
white	Sheets
Ore, 16 per cent. per ton.20 0 0-25 0 0 QUICKSILVER. Flasks, 75lbs.,war.(nom) 7 5 0- SPELTER. #ilesian	Coke, 1st quality 1 4 0 - 1 5 0 ,, 2nd quality 1 3 0 - 1 4 0 Black
Sheet zinc24 0 0-25 0 0	Black Taggers, 450 of 30 0 0

Canada; IX 6s. per box more than IC quoted above, and add 6s. for each X. Terne-plates 2s. per box below tin-plates of similar brands.

a rise in Chili bars from 53l. and they should be satisfied with the result already achieved, but if they persist in attempting more it will only tend to their own disadvantage and keep our market unsettled. There should be a pause in all speculative transactions, that an opportunity may be afforded to consumers and shippers to contribute if possible their support; but to secure this it will be necessary first for prices to recede. To show how difficult it is to effect sales on the Continent at the present time we actually hear of second-hand parcels of best select offering at the equivalent of about 69l. On Wednesday the price of gobs declined to 64l. 5s., and on Thur-day as low as 64l. was accepted; but the market slightly rallied towards the close. Wide differences in the quotations must be looked for now as dealers cannot be expected to lay back without having a great margin to provide against further probable reductions in price. The arrivals during the first part of this month are taid to be only 200 tons, and the deliveries 600 tons. To-day business is reported in cash bars, 64l. 7s. 6d. to 10s. and 65l. 10s. forward.

IRON.—This market remains on the whole steady, and prices, though showing only little alteration, keep firm, owing to the in-

in cash bars, 644.7s. 6d. to 10s. and 654.10s. forward.

Iron. — This market remains on the whole steady, and prices, though showing only little alteration, keep firm, owing to the increased demand for the raw material; a good sign is that speculation in this metal has to a considerable extent abated, and consequently prices are now regulated more by the legitimate demand than has lately been the case. Just at present we do not look for any material change in quotations unless speculation revives, for most makers are reported to have sufficient orders to be enabled to maintain present rates for some time longer, and there is nothing to justify the opinion that the bona fide demand will shortly so much increase as to permit of any further addition to the rise that has already taken place. It is thought by some that the ensuing spring trade will show a vast improvement. We will, however, as yet not venture to form an opinion of the state of the trade so far ahead, and can only express a hope that these buoyant expectations may not lead to disappointments. The market at Leeds is reported to continue in a moderately active condition, and most of the forges have sufficient work to keep the men well employed. The demand for some descriptions has become quieter, though boiler plates and general railway iron continue in good request. The Middlesbrough market maintains its position, without much change taking place in prices. The shipments last week showed a great falling off upon those of the few previous weeks, but the decrease had little effect upon quotations, owing to the reduction of 18,700 tons in the total stock last month. The stock in Connai and Co.'s yards, however, is said to have still further increased by about 1100 tons since the commencement of the month. Manufacturers show little disposition to look for forward delivery, evidently preferring to wait and see what the future state of the trade will be. For early shipment No. 3 is quoted at 45s., and second-hand parcel about 3s. per ton less. The total del

being favourable.

The settlement of the fortnightly account has again occupied the chief attention of the dealers in the MINING SHARE MARKET since our last, but it was not nearly so heavy as the previous account, and general business since has not been quite so brisk as it was. The mines chiefly dealt in have been Van, East Van, East Caradon, Wheal Crebor, D'Eresby Mountain, Aberllyn, West Ashtou, Leadhills, South Frances, Wheal Peevor, Marke Valley, Grogwinion, and w othe

TIN.—Although the standard has not further declined tin has

a few others.

TIN.—Although the standard has not further declined tin has been dull, and tin shares less firm, with scarcely any business doing until Friday, when the market somewhat revived for all kinds of shares. Botallack, 80 to 100; Carn Brea, 54 to 56; Cook's Kitchen, 3½ to 3½; Dolcoath, 54 to 56; East Lovell, 2½ to 2½; East Pool, 19 to 21; South Condurrow, 13½ to 14½; South Crofty, 6 to 7; South Frances, 11½ to 11½; Tincroft, 15½ to 16½.

At the Levant meeting, on Tuesday, the accounts showed a profit on four months' working of 2411. 13s., and a debit balance of 16481. 7s. The tin sold, less dues, realised 36411. 1s.; copper ores, 8281. 13s. At the North Levant meeting, held in Cornwall, the accounts showed a profit on four months' working of 581, and a balance against the mine of 5941. The tin sold (21 tons) realised 8791. The costs were charged to Sept. 13. West Basset, 10½ to 11½; West Frances, 11 to 12; Wheal Agar, 5½ to 6; Wheal Basset, 3 to 3½; Wheal Grenville. 5 to 5½; Wheal Kitty (St. Agnes), 2½ to 3; Wheal Peevor, 15 to 16; Wheal Uny, 1½ to 1½; West Peevor, 4½ to 5; Wheal Owles, 95 to 105, COPPER.—Business in copper mines has been rather slack, and with few variations in prices. Devon Great Consols, 4½ to 4½. Wheal Crebor have remained steady at 5½ to 5½; the points in operation in the mine are valued in the aggregate at 2151, per fathom. The ends

Crebor have remained steady at 5\frac{3}{8} to 5\frac{3}{8}; the points in operation in the mine are valued in the aggregate at 215\frac{1}{8}. per fathom. The ends are worth 165\frac{1}{8}. East Caradon rose on Friday from 2\frac{1}{8} to 3, 3\frac{1}{8}; Hingston Down, 7s. 6d. to 10s.; Mellanear, 4\frac{1}{8} to 4\frac{3}{8}; Marke Valley, 1\frac{1}{8} to 1\frac{1}{8}; Morfa Du, 16s. to 17s.; Parys Mountain, 17s. to 18s.; New Cook's Kitchen, 6\frac{1}{2} to 7; East Wheal Crebor, 1\frac{1}{8} to 1\frac{1}{8}; South Penstruthal, \frac{3}{8} to 1; West Seton, 47\frac{1}{2} to 50; West Tolgus, 25 to 27\frac{1}{2}; North Penstruthal, \frac{3}{8} to 1.

LEAD.—Lead is firmer, and spelter has reached 20\frac{1}{8}. per ton, with an upward tendency, so that the prospects for lead and blende mines are very favourable. Vans have been largely dealt in, and leave off

are very favourable. Vans have been largely dealt in, and leave off $21\frac{1}{2}$ to $22\frac{1}{2}$; the monthly report will be found in another column. The sale on Thursday, 200 tons of lead and 150 tons of blende, realised 30657. East Vans have been better, and leave off 21 to 3. lised 3065*l*. East Vans have been better, and leave off 2½ to 3. Roman Gravels, 11 to 11½; the sale of ore on the 12th, 200 tons, realised 2361*l*. 5s. At East Roman Gravels the lode in the 97 cross-cut is not yet cut. The 75 is worth 1½ ton per fathom. The stopes and pitches are looking well. There has been sampled 25 tons of lead ore and 20 tons of blende. Tankerville, 5½ to 5½; the 220 east is worth 3 tons per fathom; the same level west, 1 ton; and the bottom summ full 3 tons. The stopes and pitches are vielding good ore sump full 3 tons. The stopes and pitches are yielding good ore.

South Darren, $2\frac{1}{2}$ to 3; they have begun to drive the 110 west; the lode is worth $1\frac{1}{2}$ ton of rich lead ore per fathom. The lode in the east end is not taken down, so we cannot give the full value, but there is a strong rib of lead ore in it. The 100 end is worth $2\frac{1}{2}$ tons per fathom. The 90 end is communicated with the 80 winze; the lode is cut into 18 in., and so far very good, worth 1 ton per fathom. The general meeting is called for the 26th. Pateley Bridge, 12s. 6d. to 15s.; the 40 west, on Rake vein, is worth $4\frac{1}{2}$ tons per fathom. The 40 east is worth 2 tons, with appearances of improvement. The 30 east is very promising, and likely to become highly remunerative. West Pateley, $2\frac{1}{4}$ to $2\frac{1}{4}$; the agent writes—"The vein in the 56 has become as wide and rich as ever." Glenroy, 7s. 6d. to 12s. 6d; there is an improvement in the 100 south, which appears to be approaching something good.

is an improvement in the 100 south, which appears to be approaching something good.

West Assheton, which a short time ago were at 10s., have risen to 2, 2\frac{1}{2}. Gorsedd and Merllyn, 1\frac{1}{2} \tau 0.2\frac{1}{2}; Great Holway, 4\frac{1}{2} \tau 5; Grogwinion, 3 to 3\frac{1}{2}; Herodsfoot, 2\frac{1}{2} \tau 0. Leadhills have been in request at 3\frac{3}{4} \tau 6. Minera, 11 to 13; Aberllyn, 10 to 11; D'Eresby Mountain, 25 to 35; Clementina, 1 to 1\frac{1}{2}; Pandora, 10s. to 15s.; West Chiverton, 4\frac{1}{2} \tau 0.5; North D'Eresby, 1 to 1\frac{1}{2}; West Holway, 1 to 1\frac{1}{2}; Weye Valley, 10s. to 15s.; Caron, 2 to 2\frac{1}{2}; Crosswood, 1\frac{1}{2} \tau 0.2; Frongoch, 3 to 3\frac{1}{2}; Hartington, 1\frac{1}{2} \tau 0.2; Mawston, 1\frac{1}{2} \tau 0.2; Red Rock, 1 to 1\frac{1}{2}; Gwernymynydd, 4\frac{1}{2} \tau 0.5.

Forbign Mines.—Arendal, 4 to 4\frac{1}{2}; Blue Tent, 2 to 2\frac{1}{2}. Placer.

 $4\frac{1}{2}$ to 5. FOREIGN MINES.—Arendal, 4 to $4\frac{1}{2}$; Blue Tent, 2 to $2\frac{1}{6}$. Placerville, $2\frac{3}{6}$ to $2\frac{1}{3}$; the operations to develope the mine are progressing very satisfactorily. Cape Copper, 31 to 32; Chontales, 7s. 6d. to 12s. 6d.; Colorado, 15 to $1\frac{1}{6}$; Canada Gold, $1\frac{1}{2}$ to $1\frac{3}{6}$; Flagstaff, $1\frac{1}{6}$ to $1\frac{1}{3}$; Forntino and Bolivia, $2\frac{3}{6}$ to $2\frac{1}{6}$; Ruby, $3\frac{1}{2}$ to $3\frac{3}{6}$; Nouveau Monde, 17s. 6d. to 22s. 6d.; New Quebrada, $3\frac{1}{6}$ to $3\frac{1}{6}$; Santa Barbara, 37s. 6d. to 42s. 6d.; Panulcillo, 4 to $4\frac{1}{6}$; Pestarena, 7s. 6d. to 12s. 6d.; Port Phillip, 9s. to 11s.; Richmond, 9 to $9\frac{1}{6}$; St. John del Rey, 270 to 280.

The Market for Mine Shares on the Stock Exchange has been scarcely so active during the week, but the comparative dulness is fully accounted for by the attention which has been absorbed by the settlement; perhaps the best proof that this explanation is justified beingly that yesterday and to-day there has been a decided revival, and quotations are quite as good, and in many cases better, than they were last week. Another evidence of the continued confidence of capitallists is that the new undertakings which have been brought forward have, on the whole, been well received, it being generally reported that the subscription lists are being satisfactorily filled. It is needless to remind capitallists that by securing their shares at par

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reported that the subscription lists are being satisfactorily filled. It is needless to remind capitalists that by securing their shares at par, by applying for and obtaining an allotment of them in the legitimate way, they have much better chances of realising profits than by purchasing second-hand at a premium, and miners may be congratulated upon the circumstance that it is reported that direct subscriptions are now being made, as the larger the percentage of dividends that can be secured to investors the more beneficial it is to the mining interests generally.

The remarks made last week as to the evils from the investor's point of view of syndicating for the purpose of securing premiums have been taken by more than could have been wished as applying to themselves; it is regretable that the same cap fitted so many. The general character of the objection raised will be seen from the statement of the purser of East Crebor, given below; but it must be observed that it was stated and published in the Journal of Nov. I that "after paying for the property there is left a cash balance of 600t, and the company is on the Cost-book System. The shares are consequently at a premium." On Nov. 8 the price paid was by desire altered to la, which appeared to indicate that the 600t, was assumed to be paid up on the 12,000 shares. It is now said that the promoters have charged nothing for the property, and it is inferred that this shares are at a discount. The three statements taken together appear so irreconcilable and incomprehensible that with every desire to correct the error that has been made, it is difficult to know how to do it, so that there is no alternative but to let the purser's statement speak for itself, and delay the correction until next week.

On the Manchester Stock Exchange during the week the activity

shares are at a discount. The three statement vicked together appears of three clable and the nomprehensible that with every desire to correct the error that has been made, it is difficult to know how to do it, so that there is no alternative but to let the purser's statement speak for itself, and delay the correction until next week.

On the Manchester Stock Exchange during the week the activity in mining and industrial companies' shares has been fully maintained. On Tuesday Bolckow, Vaughan, B, were dealt in at 364, Darlington Iron at \$\frac{1}{2}\$ dis., Ebbw Vale 13\frac{1}{2}\$ dis., John Brown 13\frac{1}{2}\$ dis., Darlington Iron at \$\frac{1}{2}\$ dis., Ebbw Vale 13\frac{1}{2}\$ dis., John Brown 13\frac{1}{2}\$ dis., and Sharp, Stewarts, 20\frac{1}{2}\$. On Wednesday the dealings included Andrew Knowles (25\frac{1}{2}\$ paid) 9 dis., Chatterley 8, and Tredegar, A, at 11 dis., whilst Ebbw Vales were about 2s. 6d. better, and John Browns improved fully 2l. The transactions yesterday were scarcely so numerous, but included Bolckow, Vaughans (100\frac{1}{2}\$ paid) at 118\frac{1}{2}\$; ditto, B, 37\frac{1}{2}\$ included Bolckow, Vaughans (100\frac{1}{2}\$ paid) at 118\frac{1}{2}\$; ditto, B, 37\frac{1}{2}\$ included Bolckow, Vaughans (100\frac{1}{2}\$ paid) at 118\frac{1}{2}\$; ditto, B, 37\frac{1}{2}\$ included Bolckow, Vaughans (100\frac{1}{2}\$ paid) at 118\frac{1}{2}\$; ditto, B, 37\frac{1}{2}\$ included Bolckow, Vaughans (100\frac{1}{2}\$ paid) at 118\frac{1}{2}\$ dis., being an improvement of 3 don't Tuesday's prices; Staveley Coal and Iron, A, at 23 par; and Tredegar, B, 19\frac{1}{2}\$ (*=\cdot 01\frac{1}{2}\$) and Iron, A, at 23 par; and Tredegar, B, 19\frac{1}{2}\$ (*=\cdot 01\frac{1}{2}\$). The Mortgage and Agency Company of Ceylon, with a capital of 1,000,000\frac{1}{2}\$, and Agency Company of Ceylon, with a capital of 1,000,000\frac{1}{2}\$, and Agency Company of Ceylon, with a capital of 1,000,000\frac{1}{2}\$, and a constant of the prospectus, which is frequired 1\frac{1}{2}\$ tree the mortgage of the subscription of the

The Rio Tinto Company notify that the 8th half-yearly drawing of their Seven Per Cent. Bonds will be held in Paris at the Crédit Industriel on Dec. 1, when 825 bonds of 201. each will be drawn to be paid off at par. on Jan. 1 next.

paid off at par. on Jan. 1 next.

East Crebor, 1\(\frac{1}{4}\) to 1\(\frac{1}{2}\); the purser writes—As the value of the useful work done is equivalent to some 2l. 10s. per share, and each share has had the advantage of such outlay, it is manifestly unfair to insert the word "nil" in the amount paid column of the Share-List, while the entry of 1s. paid, without a further explanation that the shareholders pay nothing for the property (which explanation your column does not afford room for giving) does not do justice to those who have interested themselves in the concern. If the amount paid cannot be left out the better way will be to leave out the name of the mine—as it is now the word "nil" would be untrue, and the expressed amount of 1s. is simply misleading. I will take this opportunity also of saying I do not think the remarks in the City article last week, which myself and others have noticed, as referring to East Crebor are made in very good taste. The very thing therein complained of is the identical thing we have avoided. We have charged nothing for the property, and, consequently the shares command, and justly so, a good price in the market—and

if they were double the price they would only be equivalent to the actual outlay per share. There has been no "rigging" the price, and no combination of individuals to sompel people to buy. There is a dealing price, and the dealers will buy as well as sell the shares.

John Abbot and Co. (Limited) have shown a marked improvement

John Abbot and Co. (Limited) have shown a marked improvement recently, and the present quotation on the Newcastle-on. Tyne Stock Exchange is 27½ to 25 dis.; and except at the latter price no shares are obtainable. As only a few weeks ago no business could be done in them at 45 to 40 dis., the shareholders may well be congratulated on the brightening prospects. There is an important improvement, but not to the extent supposed—a rise of about 5s. to 7s. per ton, with a drooping market, being somewhere about the mark. Spring may, it is thought, bring a good steady trade, but not if outsiders get hold and rig the markets.

St. John del Rey, 270 to 280; the latest telegram from the mines at Morro Velho, dated Rio de Janeiro, November 11, states that the produce for October was 32,500 oits, of the value of 12,593%, the ley of the ore being 6:3 oits, per ton. At Cuiaba 200 tons stamped in

at Morro Velho, dated 1410 de Jahelro, November 11, states that the produce for October was 32,500 oits., of the value of 12,5934, the ley of the ore being 6·3 oits. per ton. At Cuiaba 200 tons stamped in 15 days yielded 2·7 oits. per ton. The advices (dated October 18) received to-day state that notwithstanding the sickness prevailing the work underground and at surface has been satisfactorily performed. The experimental process of stamping the residual sand has given still better results. The monthly profit has been unfavourably influenced by the increase of European and native pay, and a rise of 1d. per milireis in the exchange. The lower yield per ton is due to the treatment of a large quantity of killas.

The commercial prosperity of the United States is strongly affirmed by the Philadelphia correspondent's letter published in the Times of Wednesday, wherein he states:—The evidences of revived industry in the United States multiply, and the universal belief is that we have entered upon a period of unexampled prosperity. Every manufacturing and transportation interest seems to be pushed to the utmost capacity, and the demand for goods is enormous. The stock markets continue scenes of wild speculation, with everybody a "buil." The transactions are immense and prices steadily advance. All interests are similarly affected. In everyment, or mined, or manufactured in the country to supply the demand, and that the railways and waterlines have not anything like the abilities to carry all the goods that are offered for transportation. Rivalries seem suddenly overwhelmed by the great wave of prosperity, while "combinations" and "curates" hay been swept by the deluge of goods that has swamped the transportation lines.

Last week I took a brief journey westward and back over the Pennsylvania.

the goods that are offered for transportation. Rivalries seem suddenly overwhelmed by the great wave of prosperity, while "combinations" and "cut rates" have been swept by the deluge of goods that has swamped the transportation lines.

Last week I took a brief journey westward and back over the Pennsylvania ralitond, going as far as Cincinnati, about 700 miles from the seaboard. The journey showed what was going on, for it took me through the coal mining and manufacturing regions of Pennsylvania and Ohio. All the mines were pouring out their black diamonds and all the factories were at work. At Johnstown and Pittsburg great centries of the iron trade, there were no "toad chimneys," but all poured out their sheets of flame and clouds of smoke. Pittsburg rivalled anything seen in your "Black Country" in its best days, giving, as the dense clouds and streaks of flame filled up the valley in which it stands, probably the best idea an anticipating American can get of the infernal regions. Every furnace and forge and hammer and roll were working at full capacity flowing day and night, with relays of men to keep the work moving continuously. The town was full of life and bustle, while miles of the rivers were covered with loaded coal barges and their attendant tow boats, awaiting a higher stage of water on the Ohio, so that they could go down and supply the people living on the shores below. About 16,000,000 tons of coals thus awaited shipment. He then goes on to say that there is no better evidence of the present condition of business in the United States than the sight presented by the magnificent highway between the west and the seaboard, the Pennsylvania railroad. Upon this line is now being poured a flood of transportation such as it never saw before. It has every locomotive and car of its enormous equipment in use, and the station agents, overwhelmed with goods, are clamorous for the facilities to move them. Its stores are stuffed with produce that accumulates faster than the trains can carry it away. The manage

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the work being carried on, and state that a large demand has set in for white lead in the United States.

Richmond, 9 to 9½, ex div.; the usual telegram from the mines at Eureka, Nevada, states that the week's run was \$48,000 from 820 tons of ore. Of this \$36,000 was from No. 1 furnace and \$12,000 from No. 4. During the week the refinery produced doré bars to the value of \$45,000. The manager (Oct. 22) writes that the explorations have gone on with the usual regularity. The 800 west drift is still hard, but very favourable for ore. A winze has been started from the bottom of the 900 in the east quartzite drift; at present it is in broken ground. The furnaces are in good working order. The No. 1 smelted during the past week an average of \$4 tons per diem. All the machinery, both inmine and smelting works is in good working order.

Ruby, 3½ to 3½; the reports to hand this week are of a highly satisfactory character. The telegram read to the meeting holds out promise of early discoveries, seeing that the points recommended by

Promise of early discoveries, seeing that the points recommended by Capt. Rickard are being carried out.

The Emma Silver Mine litigation was reopened at New York on The Emma Silver Mine litigation was reopened at New York on Oct. 21, the new suit involving substantially the same facts, issues, and claims as were set forth in the original litigation. The present suit is a proceeding in equity, brought by the Emma Silver Company (Limited), of London, against the Emma Silver Mining Company, of New York, Trenor W. Park, Horace H. Baxter, William M. Stewart, and Charles G. Lincoln, the only new parties in this proceeding being the Emma Silver Mining Company of New York, and Charles G. Lincoln. The plaintiffs sak that the sale by the defendants of 25,000 shares of the company be declared fraudulent and void, and that the defendants be decreed to pay over to the plaintiffs the moneys paid by the plaintiffs. Edwin W. Stoughton appeared as counsel for plaintiffs, and John E. Burrill and Edward J. Phelps for the defendants. The ground of the defendants motion is in effect that the issues sought to be determined are similar to those involved in the suit at law. Judgment was reserved.

In Hydraulic or Gold Washing Companies shares there has been some improvement owing to the favourable advices received from the properties. Placerville, 2½ to 2½; the developments in the mine continue highly favourable and are steadily pushed on to be in readiness to keep the large mill at work, when ready.

In Lead Mine Shares a considerable amount of business has been dependently improving prices of both lead and blende ores.

one, the continually improving prices of both lead and blende ores favourably affecting mines of this class, in addition to which several mines show great improvement. Van, 21 to 22; the usual monthly report will be found in another column. The 105 west is still looking well. The monthly sale on Thursday (200 tons lead and 150 tons blende) realised 30651.

piende) realised 3065*t*. Frongoch, 3 to 3½; encouraging accounts continue to be received respecting this mine. The blende deposits in the shallow workings are stated to be opening out well, and the company will derive a profitable revenue therefrom. The deep workings are also looking well, and prospects altogether are excellent. Grogwinion, 3½ to 4; these shares are in demand upon the improved price for ore; the mine continues to look well at all important points. Wee Valley, ½ to 1; it is stated that a reconstruction upon a favourable basis will shortly be carried out.

it is stated that a reconstruction upon a favourable basis will shortly be carried out.

West Wye Valley, ½ to 1; the mine continues without important change, but improvements are expected to be near at hand. Caron, 2 to 2½; all is reported to be going on well at this property. Red Rock, ¾ to 1½; good progress is making here, and prospects continue to improve. Sales are expected to increase now that lead has risen in price.

Mineral Corporation of Greal Britain, 12 to 13; with regard to the issue of the 200 shares on the French market, it appears that the Orieri has raised a cri to the effect that it was simply illegal to offer shares in a company registered in England upon the French market. The opinion. is, of course, absurd, and the Credit Nationel, always a well informed financial newspaper sarcastically remarks "What a silence the Orieri would have maintained had it been more prudent," and this morning's Credit Nationel gives a favoureble account of what has been done at the mine eapont stat there is nothing new caling for special remark. The mine reports that it was almost once the mine reports that there is no had a storage of the more prudent," and this morning's Credit Nationel gives a favoureble account of what has been done at the mine and what are the prospects. The manager ac the mine reports that there is nothing new caling for special remark. The control of the most has been done at the mine and what are the prospects. The manager ac the mine reports that there is nothing new caling for special remark. The control of the most has been done at the mine and what are the prospects. The manager ac the mine reports that there is nothing new caling for special remark. The control of the master one of the district, has already been discovered at Pen-yr-orsedd, and altogether the mine has brilliant prospects. The shares are being absorbed privately.

LANSAWELL SILVER-LEAD MINES.—The reports are considered even more encouraging than could have been expected. The No. 1 activated to the company has to find

In the last six days were they tall the last six days work.

Pately Bridge, ½ to 1½; the 40 west, on Rake vein, is strong and massive, producing about 4½ tons lead ore per fathom. The 40 east is in a strong and promising vein, worth at present 2 tons per fathom, with every appearadee of a fresh improvement shortly. The 30 end east, on this vein, is also very promising, and gives appearance of becoming highly remunerative. Other parts unchanged.

tonde, % to 1; Pestarena, % to %; Placerville, 2% to 2%; Plumas Eureka, 2% o 3; Port Phillip, % to %; Richmond Consolidated, 9 to 9%; Ruby and Dundederberg, 3% to 3%; Sierra Buttes, 1% to 3; Santa Barbara, 2 to 2%; United Mexican, 2% to 3.

CORNISH MINE SHARE MARKET.—Mr. JOHN CARTER, Camborne (Nov. 13), writes—The Cornish Mine Share Market has been less active, and prices of tin mine shares have declined during the week, but a fair amount of business has been transacted. At the close business is estricted by the fortnightly settlement at hand. Prices annexed:—Botallack, 70 to 90; Blue Hills, ½ to ½; Carn Brea, 52 to 53; Cook's Kitchen, 3½ to 3½; Dolcoath, 52 to 53; East Caradon, 2½ to 2½; East Lovell, 2½ to 2½; East Pool, 19½ to 20; Killifreth, ½ to ¾; Mellanear, 4½ to 4½; New Cook's Kitchen, 6½ to 7; North Busy, 3 to 4; Penhalls, 1 to 1½; South Caradon, 55 to 57½; Bouth Condurrow, 13½ to 14; South Corfty, 5½ to 6½; South Frances, 11 to 12; Thicroft, 15½ to 16; West Basset, 10½ to 16½; South Frances, 11 to 12; West Peevor, 5 to 5½; West Seton, 4½ to 5; West Tolgue, 25 to 27; Wheal Agar, 5½ to 6; Wheal Basset, 3 to 3½; Wheal Grenville, 5 to 5½; Wheal Kitty, 2½ to 3; Wheal Jane, 5 to 5½; Wheal Peevor, 15½ to 15½; Wheal Lity, 1½ to 1½. CORNISH MINE SHARE MARKET .- Mr. JOHN CARTER, Camborn

Wheal Basset, 3 to 3½; Wheal Grenville, 5 to 5½; Wheal Kitty, 2½ to 3; Wheal Jane, 5 to 5½; Wheal Peevor, 15½ to 15½; Wheal Uny, 1½ to 1½.

— Mr. J. H. REYNOLDS, Redruth (Nov. 13), writes—The Cornish Mine Share Market, in sympathy with the drop in the tin market, is dull, prices generally ruling lower. The following are the closing prices:—Carn Brea, 52 to 54; Cook's Kitchen, 3½ to 3½; Dolcoath, 52 to 54; East Caradon, 2 to 2½; East Pool, 19 to 20; Marke Valley, 1 to 1½; Mellanear, 4 to 4½; New Cook's Kitchen, 5½ to 7½; Phenix, 2 to 2½; South Caradon, 55 to 60; South Condurrow, 13½ to 14; South Crotty, 6½ to 6½; South Caradon, 55 to 60; South Condurrow, 13½ to 14; South Crotty, 6½ to 6½; South Caradon, 55 to 60; South Condurrow, 13½ to 16; West Basset, 10½ to 11; West Chiverton, 4½ to 5; West Frances, 111 to 12; West Peevor, 4½ to 5; Syest Tolgus, 25 to 27; West Seton, 49 to 51; Wheal Jane, 4½ to 5%; Wheal Basset, 3 to 3½; Wheal Grenville, 5 to 5½; Wheal Jane, 4½ to 5%; Wheal Peevor, 15½ to 16; Wheal Grenville, 5 to 5½; Wheal Jane, 4½ to 1½; Wheal Comford, 2 to 2½.

— Mr. M. W. BAWDEN, Liskeard (Nov. 13), writes—The following are the closing prices this afternoon:—Bedford United, 3¢ to ½; Botallack, 75 to 80; Carn Brea, 53 to 54; Citters, 13½ to 2; Cook's Kitchen, 3½ to 4; Dolcoath, 53 to 54; Devon Consols, 4½ to 4½; East Caradon, 2½ to 2½; East Lovell, 2½ to 3; East Pool, 19 to 20; Gawton, 3¢ to 3½; Glasgow Caradon, 1½ to 13½; Herodardot, 2½ to 3; Hingston Down, 3¢ to 3½; Glasgow Caradon, 1½ to 13½; Herodardot, 2½ to 4½; North Penstruthal, 1 to 13½; Pheenix, 3½ to 4; South Frances, 11 to 11½; West Chiverton, 4½ to 5; West Frances, 11 to 11½; West Chiverton, 4½ to 5; West Frances, 11 to 11½; West Chiverton, 4½ to 5; West Frances, 11 to 11½; West Chiverton, 4½ to 5; West Frances, 11 to 11½; West Chiverton, 4½ to 5; West Frances, 11 to 11½; West Chiverton, 4½ to 5; West Frances, 11 to 11½; West Chiverton, 4½ to 5; West Frances, 11 to 11½; West Chiverton, 4½ to 5; West Frances, 11 to 11½; West Chiverton, 4½ to 5;

INSURANCE SHARES have, according to this evening's report of Mr. W. L. Webb, of the Stock Exchange and Finch-lane, been dealt in as follows († exceptional amount at special prices): Alliance British and Foreign, 22%; (Commercial Union, 19 to 19½; Home and Colonial, 1½, to 5½; London and Provincial Marine, 4½; British and Foreign Marine (Limited), 18½ to 18½; Indemnity Marine, 95½† to 97½; London, 60½; North British and Mercantile, 43½; Royal Exchange, 4001. Insurance shares are generally firmer, especially Commercial Union. For closing prices see list on last page of Journal.

Commercial Union. For closing prices see list on last page of Journal.

GAS SHARES — The principal business in these shares, according to this evening's report of Mr. W. L. WEBB, of the Stock Exchange and Finchiane, has been in Brentford Consolidated, 149½ to 150; Commercial, 173; Continental Union, 19½1 to 19; European, new, 17½ to 18½; Gas Light and Coke, A, 179½, 179 to 179½, 180 to 180½; 1810 to 180½; ditto, fourth issue, 17, 18½ to 18½; ditto, fourth issue, 17, 18½ to 18½; ditto, fourth issue, 17, 18½ to 18½; ditto, 100½; Imperial Continental, 1861, 174, 173½ to 174, 187½ to 188¾, 190, 189½ to 190; Malta and Mediterranean, 2½; Monte Video, 15 to 14½; Oriental, 7½, 75 to 7½; ditto, new, 5; Para, 4½ to 5; Rio de Janeiro, 26 to 25½; San Paulo, 11½; South Metropolitan, 198 to 197 († exceptional amount at special price). Gas stocks are very firm. Gas, A, has risen 2 per cent. upon investments by parties who did not succeed in getting the new stock they had tendered for, and Imperial Continental has risen 2 per cent. upon the issue of a good report and expectation of a favourable meeting. For closing prices see list on last page of Journal.

TRAMWAYS — The Closing prices of this evening, as quoted by Mr.

TRAMWAYS — The closing prices of this evening, as quoted by Mr. (ABBOTT, of Tokenhouse-yard, are given in tabular form in the last page of the Journal.

W. ABBOTT, of Tokenhouse-yard, are given in tabular form in the last page of the Journal.

Messrs. PIXLEY AND ABRIL.—GOLD: Slince our last, we have received 28,1801 from the Brazils; 51,8501 from India; 37,5001 from West Indies: total, 117,5307. This amount has been quite inadequate to supply the requirements of exporters, and recourse has, therefore, been had to the Bank to the extent of 1,106,0001, the bulk of which has been sent to America; further amounts will follow. The shipments of gold from Liverpool to the States for the month of October amounted to 1,030,4701, and not 584,130, as mentioned by us last week. The steamer which left Havre for New York on the 8th inst. took 12,0001. The P. and O. steamer takes to-day 70,0001. to Egypt, and 20,0001 to India.——SILVER: The market for silver gradually became firmer after our last issue, and the price improved to 53½4. per oz. At this rate a considerable business was done; the firmness continued until after the allotment of Council drafts yesterday afternoon, when sales could no longer be made at the above quotation, and prices became very unsettled. As there are now holydays at Calcutta and Bombay lasting until Monday, there is no likelihood of much business being done at present, as we cannot receive advices of exchange before the 17th inst. The steamer to-day takes 191,7001. to India. We have received during the week 24,0001, from New York; 10,0001. from Germany; 14,9001. from West Indies: total, 48,9001.

** With this week's Journal a SUPPLEMENTAL SHEET is given, which contains—Original Correspondence: The Forest of Wyre Coal Field—Important Discovery (W. Molyneux); [Coal Briquettes (Yeadon, and Co.) Pneumatic Mineral Dressing; Water-Power for Mining Purposes (G. Rickard); On Compressed Air; Coating the Interior of Boilers; An Arctic Railway Project, Forsooth: (W. J. Thompson); Central Railway Company of New Jersey; The Instantaneous Fuse and Igniter (Bickford, Smith, and Co.); Bock Boring Machinery (J. Barkell); Wheal Agar—Boring Machinery (H. Teague); Treatment of Tin Ores (W. Nance); The Copper Trade—the Cambrian Company (E. Hawkins); the Flagstaff Silver Mining Company of Utah (A. A. de Metz); the Fanulcillo Copper Company; South Wheal Frances (A. T. James); Wye Valley Mining Company; East Crebor Mine; Wheal Crebor; Mining in Montgomeryshire, and North Wales Correspondent; Mining in the Lianarmon District; the Lianrwat District—No. III.; Cardiganshire Lead Mines; Revival of Cardiganshire Mines (Abadom Francis)—Scotch Mining Share Wival of Cardiganshire Mines (Abadom Francis)—Scotch Mining Share Porteign Mining and Metallurgy—Foreign Mine Reports, &c.

Lead Mines.—The gradual rise in the price of lead during the last few months, and its continued firmness in the market, have greatly increased the value of mines producing this metal, which foreibly confirms the views expressed frequently by Mr. Murchison for many years. Long after tin and copper had become much depressed, lead remained at a remunerative value, and it has been the first to recover itself; while the expense of returning it is, on the average, less than it costs to return the other metals. It may be safely predicted that the price of lead will go up a good deal more, and in support of this view we may allude to what the Times stated on Thursday—namely, that "Large orders for lead have been received in the Tyne from Austria. They include pig, red, and litharge. The lead trade of the North of England has improved very materially in the past month. The lead mines of Teesdale, which had been in a depressed state for two or three years, are getting into better work. There are large sales of Spanish lead upon the Tyne." We trust, however, that few if any new projects will be brought out, and we recommend the public to discourage any such attempts, for there are many good mines already at work that require more capital to open them properly, in which investments can be made on better terms than in new undertakings.

PEN-YR-ORSEDD.—The interest attached to the energetic working of

BEDFORD UNITED.—The accounts to be submitted to the share-holders on the 26th show that a loss of 341l. has been incurred in the last six months, but it is stated in the directors' report that it has been necessary to take in seven months' costs against six sales of copper ores, consequently the actual loss is reduced to about 115*l*., ing, and gives appearance of becoming mignly remains and the sale on Nov. 20 is expected to realise little short of 300l.,

The subjoined is the list of the closing quotations:—

Assheton, % 1½; Botallack, 70 to 30; Carn Brea, 52½ to 55; East Van, 2½

Consols, 4½ to 5; Dolcoath, 52½ to 55; East Caradon, 2½ to 3; East Van, 2½

May Valley, 1¼ to 1½; Pathety Bridge, ½ to 19; Leadhills, 3½ to 4½;

May Valley, 1¼ to 1½; Pathety Bridge, ½ to 70; Roman Gravels, 11 to 1½; Lankerville, 5½ to 6; Van, 21 to 22; West Assheton, 2½ to 2½; West Chiverton, 4½ to 5; Dolcoath, 4½ to 5½; Pathety, 2½ to 2½; West Chiverton, 4½ to 5; London and Tirito, ¼ to ½; Bridseye, ¾ to 1;

Blue Tent, 2 to 2½; Canada Gold, 2 to 2½; Cape Copper, 30½ to 3½; Chontalles, ½ to ½; Exchequer, ½ to ½; Exchequer, ½ to ½; Corado United, 1½ to 1½; Frontino and Bollvis, 2½ to 2½; Exchequer, ½ to ½; Cape Copper, 30½ to 3½; Chontalles, ½ to 5;; Colorado United, 1½ to 1½; Frontino and Bollvis, 2½ to 2½; Kathety and the sale on Nov. 20 is expected to realise little short of 300l., therefore a further profit may be fairly calculated upon. Every liability is charged up to the end of October, and the assets, including reduced before the meeting, are ample to pay off the whole of the whole of the mine. The remission of dues by the Duke of Bedford tales, ½ to ½; Exchequer, ½ to ½; Exchequer, ½ to ½; Exchequer, ½ to ½; Exchequer, ½ to ½; Chorado United, 1½ to 1½; Frontino and Bollvis, 2½ to 2½; West Lafall, 1½ to 1½; Frontino and Bollvis, 2½ to 2½; West Cape Copper, 3½ to 3½; Chorado United, 1½ to 1½; Frontino and Bollvis, 2½ to 2½; West Cape Copper, 3½ to 3½; Chorado United, 1½ to 1½; Frontino and Bollvis, 2½ to 2½; West Cape Copper, 3½ to 3½; Chorado United, 1½ to 1½; Frontino and Bollvis, 2½ to 2½; Huttafall, 1½ to 1½; Frontino and Bollvis, 2½ to 2½; Huttafall, 1½ to 1½; Frontino and Bollvis, 2½ to 2½; Huttafall, 1½ to 2½; Huttafall, 1½ to 1½; Frontino and Bollvis, 2½ to 2½; Huttafall, 1½ to 2½; Huttafall, 1½ to 1½; Frontino and Bollvis, 2½ to 2½; Huttafall, 1½ bility is charged up to the end of October, and the assets, including calls unpaid, which are all good, and will probably be considerably reduced before the meeting, are ample to pay off the whole of the debts of the mine. The remission of dues by the Duke of Bedford has been of great assistance to the company. The report of the directors intimates a further extension of tutwork, which will lay open ground and prove beneficial to future semplings. A great research

n the list of dividend-paying mines.

EAST CREBOR.—A correspondent, writing from Tavistock, says:—
"The starting to work of East Crebor Mine is hailed by the mining community of the neighbourhood with great satisfaction, many good authorities going so far as to say that they are sure it will be a great success, and ultimately be another Devon Great Consols. Crebor still holds its own—in fact, there is an improvement in the stope in the back of the 120, where some remarkably rich ore has been broken. The improved quality of the ore at this point—the eastern part of the mine—corresponds with the great discovery of rich yellow ore (richer than ever known in England before) which was made some years ago in East Crebor." in East Crebor.

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LEAD ASHES, LEAD SLAGS, SULPHATE OF LEAD, HARD LEAD,
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HENRY WIGGIN AND CO. (LATE EVANS AND ASKIN),

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VALPARAISO AND SANTIAGO, CHILE.

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Notices to Correspondents.

- "." Much inconvenience having arisen in consequence of several of the Num during the past year being out of print, we recommend that the Journal sh-be filed on receipt; it then forms an accumulating useful work of referen
- Sir,—If the maker of the Abegg's hand-boring machine would kindly send his address to me I should like to communicate with him.—A. WILLIAMS: South Cambrian, Goginan, Abebystwith, Nov. 8.
- in,—Will any of your readers inform me if it is possible to convert a company conducted under the Limited Liability Acts into a Cost-book company without winding up the former, in accordance with the Companies Acts, 1862 and 1867 if so, how?—ABGUS.
- if so, how ?—Ascus.

 Sir,—I hold a number of shares in a valuable lead and copper mine in South Wales, but unfortunately the management is in the hands of the principal shareholder, who also at a (so-called) general meeting, at which only two shareholders were present, got himself appointed a director. I would feel obliged if any of your readers would inform me if this proceeding is legal, and if the shareholders, although holding only a few in comparison with this autocrat, have not the power to call a general meeting, and so save this magnificent property from destruction.—Flag.
- Received,—"N. A. C." (Ambleside)—"J. M."—"J. T. H."—"O. S."—"Omen "—
 "Suffering Shareholder" (New St. Agnes) wishes for some information as to the anticipated prospects of the future West Kitty—"G. B. R."—"Share holder" (Rhoswydol)—"H. T."—"W. R. R."—"W. M. E." (Stanhope)—
 "Constant Reader" (Leitrim)—"Shareholder" (Leadhills)—"Shareholder' (Wheal Crebor).
- (Wheal Crebor).

 The Supplementary Sheet.—We have received occasional complaints, and of late a good many, that the Journal is delivered by country booksellers without the Supplement. Subscribers would oblige us by demanding that the paper should be handed to them complete, as every Journal is accompanied by the Supplement when it leaves our office, and the fault of omission must rest with the country bookseller or their London agent.

THE MINING JOURNAL.

Bailway and Commercial Gazette.

LONDON, NOVEMBER 15, 1879

THE GASES FOUND IN MINES. In the carrying out of mining operations scarcely anything is of greater importance than an accurate knowledge on the part of ma-

greater importance than an accurate knowledge on the part of managers of the nature of gases, the physical laws which regulate their movement, and the means by which their destructive properties can be neutralised and rendered harmless. But such knowledge is anything but general amongst the class to which it would be of the greatest benefit, and now that a Royal Commission is taking evidence with special reference to the subject, a notice of the gases found in mines and their properties cannot fail to interest a large proportion of our mine managers in all parts or the country, and who may be induced to make further investigation which will repay who may be induced to make further investigation which will repay them well. In all mines, we may say, gases are met with, for if there were no other causes there would be the combustion of light and the respiration of men and animals, which lead to the formation and the respiration of men and animals, which lead to the formation of steam and highly deleterious gases, but in many places such are found in connection with the mineral being worked, so that when the latter has been removed from where if has been pent up for long ages they are at once released, in many instances spreading over a large area, requiring immediate dilution with fresh air to render them harmless. But many of the gases met with in mines have helped to form the mineral in which they are found, and so return to us in something like their original state on being liberated from their long confinement by the breaking down of the strata which enclose them confinement by the breaking down of the strata which enclose them. Amongst the most important as well as interesting of these is the carbonic acid gas, which is found in all our mines in quantities more or less. In mines in which coal is raised it is found in considerable volumes, and it is considered to be far more injurious to the health of the workmen than the inflammable gases. Owing to its specific gravity, which is 1924, it is found in the lower part of mines, and after an explosion many men that escaped the fiery gas have been killed by the choke-damp, of which a large proportion is carbonic acid. Lights are extinguished in air mixed with one-tenth of carbonic acid, which acted on men in the same way as poison, and as acid. Lights are extinguished in air mixed with one-tenth of carbonic acid, which acted on men in the same way as poison, and as soon asit amalgamated with the air by more than 8 per cent, there was danger of suffocation. Dr. A. SMITH, in alluding to it, says where there were 2 to 2½ per cent. of it present, the proportion depending somewhat upon the temperature, &c., candles were extinguished, and that so small a portion as 1-10th per cent. was sufficient to cause a workshop to be considered close. The smallest quantity that would suffocate a man was not exactly known, but where there was sufficient to put out a candle it was evident that a person would not long survive in it. In excavations in which the air is constantly renewed carbonic acid is continually formed, so that there should always be sufficient ventilation to draw it away, and to keep the quantity which is mixed with the air below what would render it stantly renewed carbonic acid is continually formed, so that there should always be sufficient ventilation to draw it away, and to keep the quantity which is mixed with the air below what would render it injurious to the workmen. Carbonic acid, it should be stated, is necessary to animal life, for a man in 24 hours converts as much as 7 oss. of carbon into carbonic acid, and a horse 79 ozs., solely by the act of respiration, and all of which ascends into the air, being evolved by the heat of the body. But when it is converted into gas it is very different. It then takes an important part in the formation of coal, for the trees and plants that grew in the forests and swamps drew their carbonaceous properties from it, the gas and water existing in the soil and floating in the air being aided by the light and sunshine, for decomposition ceased in the dark. There is another property peculiar to carbonic acid. If a small quantity is added to an explosive mixture of air and fire-damp it will weaken and in some instances prevent an explosion, one-seventh added to a mixture the most explosive being sufficient to destroy the explosive property. Carbonic acid gas, too, is dissolved by water in a volume nearly equal to its own by atmospheric pressure, and under a higher pressure the water absorbs a larger quantity, which ceases when the extra pressure is removed. All gases are said to have the property of diffusion, or of mixing with each other, but carbonic acid is found in the lower part of all excavations, owing to its greater specific gravity, consequently in entering old or abandoned working places in mines they should not be entered under any circumstances until it was seen that they

Carburetted hydrogen has more terror for the miner than any other gas, although it does not affect his health to anything like the extent of gas, atthough it does not after his health to anything her the extent or carbonic acid; yet its results at times are something terrible, sweeping away hundreds of lives at a time. But there is very little doubt but that the majority of those explosions that have taken place were the result of preventible causes. Carelessness, neglect of ordinary precautions as to ventilation, defective lamps, blasting, smoking in an explosive atmosphere, or working in dangerous places with naked lights, are amongst the gauges to which some of our explicitors may lights, are amongst the causes to which some of our explosions may Unless indeed in the case of sudden outbursts of gas be attributed. Unless indeed in the case of sudden outbursts or gas, which no foresight or precautions can anticipate or prevent, explosions of gas in mines should now be almost unknown. There can be no excuse for an accumulation of gas to the extent of its being explosive in a well-officered and well-managed mine. Even in those where gas is known to be given off in considerable quantities there should be no great difficulty in providing an adequate amount of ventilation either by means of the furnace or the fan to render it powerless for harm. By judicious splitting of the currents of air, almost any quantity can be sent through the working places of a

of all excavations, owing to its greater special gravity, consequency in entering old or abandoned working places in mines they should not be entered under any circumstances until it was seen that they would allow of the combustion of lamps. As carbonic acid is the most deadly of our gases, managers of mines should be thoroughly and as

acquainted with it and the places where it is to be found; and, as we have before stated, it is to be found where numbers of men and

animals are to be met with more or less in all mines, and owing to

the effect of even a small quantity on the health of workmen it should be swept away by copious and constant supplies of fresh air, for the

working places in mines can be made as healthy as those on the

mine both pure and cool. The gas constituting what is termed firedamp shows its presence in the miner's lamp, the wick appearing to be surrounded by a halo of a pale blue colour. The gas is lighter than air, its specific gravity being 0.555, that of atmospheric air being 1, and is not soluble in water, and unlike the carbonic acid, can be breathed without danger when it enters in a less volume than one-third into the atmospheric air. It is composed of 2 atoms of hydrogen 2, and 1 atom of carbon || 6, its atomic weight being, therefore, 8. The relative weight, therefore, of carbonic acid gas, atmospheric air, and fire-damp, would be nearly represented by the figures 3, 2, and 1. When the fire-damp is mixed with from 30 to 15 times its volume of atmospheric air the flame of a candle plunged into the mixture would be elongated and enlarged according to the 15 times its volume of atmospheric air the flame of a candle plunged into the mixture would be elongated and enlarged according to the proportion of gas that approached the principal limit. A mixture of a small proportion of carbonic acid gas would cause the halo surrounding the light to assume a brown tinge of much greater distinctness. When the fire-damp forms one-fourteenth of the entire volume the inflammation extends through the whole gaseous mass, but without loud detonation. The rapidity of the inflammation increases with the proportion of gas until it amounts to over one-ninth or one-eighth of the total volume, and in these latter proportions the mixtures are explosive in the highest degree

If the proportion of fire-damp is increased still further the mixture becomes less and less explosive, and when the mixture of gas with air contains more than one-third of the volume of gas it is no longer inflammable. Carburetted hydrogen is met with in various ways and

inflammable. Carburetted hydrogen is met with in various ways and places, being disengaged from the marshes and stagnant waters, and in some places flows from ordinary strata, and has been found in boring for rock-salt. But it is in the coal measures where it deve-lopes itself to the greatest extent, and in connection with which it is best known. It escapes from the cells of the coal, and in the seams that may be considered the most valuable, and it is not confined to depth, although the lower the bed there is generally the most gas. Below some beds of coal in ordinary strata the gas is pent-up under considerable pressure, from which it escapes at times with great force suddenly, without the slightest intimation. These sudden outbursts are of a serious nature, and their effects only counteracted by having in all mines where gas is given off the best of safety-lamps, for so vast is the volume at times given off that a naked light or a defective lamp would be the means of killing every living thing in the mine. But, it may be said with regard to fire-damp, where a safety-lamp will burn the air can be respired without danger; but it would be dangerous to remain when the cylinder of the lamp was filled with flame, because any violent agitation of the lamp or the air surrounding it might lead to the flame passing through the gauze, and so cause it to reach the outside atmosphere, when in all probability there would be an explosion. In what is termed proto-carburetted hydrogen there does not appear to be much difference from that just alluded to, its specific gravity being given at 0.999.

Sulphuretted hydrogen is also a gas that should not be allowed to prevail in mines, as it affects the health of the workmen. Many persons who for some time have been working in an atmosphere where

orevail in mines, as it affects the health of the workmen. Many per-ons who for some time have been working in an atmosphere where sons who for some time have been working in an atmosphere where it is found in considerable quantities are of ten laid up in consequence, although they are not aware of the cause. Owing to the chemical decomposition constantly going on in mines and to the moisture great changes take place, by which a good deal of the oxygen is absorbed, and is replaced by carbonic acid, nitrogen, ammonia, and carborretted hydrogen, which are more or less deleterious. But this need not be the case, for mines may be made healthy and salubrious—so that no man should be allowed to work in a place where there was a stagnant atmosphere or any fermentation leading to minsma going on. This can be easily accomplised by sending through all working places volumes of fresh air sufficient to dilute all gases brought along by the air current. Were this done, and proper attention paid to the gases that of necessity in some mines go on increastion paid to the gases that of necessity in some mines go on increasing in extent, and changing by chemical processes, we should hear but seldom of explosions, whilst the life of the miner would be extended by his working in a really healthy atmosphere, so that there would be no necessity for the appointment of Royal Commissions, or future legislation with respect to mines.

THE COAL AND IRON INDUSTRIES OF SOUTH WALES.

Considerable changes have taken place during the past few weeks in several parts of South Wales, and all of them most decidedly for the better, so that a brief notice at the present time may not be out of place. The coal field of South Wales is the largest in the kingdom, with the exception of the Clyde basin, but owing principally to strikes and disputes there has not been that marked progress in the development of the valuable seams of smokeless steam and other coal that might under ordinary circumstances have been expected. But development of the valuable seams of smokeless steam and other coal that might under ordinary circumstances have been expected. But of late a good deal more has been done, and several colliery owners, in addition to heavy shipments to the various home ports from Cardiff, Newport, Swansea, Briton Ferry, and Llanelly, have cultivated a trade with the Metropolis by railway. In 1859 coal was first sent over the Great Western to London, the quantity during that year having been 39,570 tons, which in the following year increased to 58,490 tons; now, however, the quantity sent is at the rate of more than a million tons annually, there having last month alone been forwarded over the Great Western 110,150 tons. But what is most gratifying in the prenow, however, the quantity sent is at the rate of more than a million tons annually, there having last month alone been forwarded over the Great Western 110,150 tons. But what is most gratifying in the present state of trade is to find the name of Crawshay, of Cyfarthfa, once again as the exporter of both coal and finished iron. Thus we find his name once more in the list of colliery owners sending the produce of their mines to London, for during October upwards of 5000 tons of coal were sent over the Great Western Railway to London from the Merthyr Crawshay Colliery, whilst nearly 10,000 tons were forwarded over the same line from Nixon's Navigation. This improving change, it is to be hoped, will go on—but much, of course, will depend upon the men, whose experience of strikes should lead them to do all in their power to promote the interests of those who employ them. As to the increase in the annual production of coal, we may say that in 1874 the output was 10,184,885 tons; in 1877 it was 12,634,335 tons; and in 1878 it was 12,926,225 tons. Yet if we go back to 1855 we find in that year that the coal raised was 8,550,270 tons, or 18 per cent. of the entire yield of the kingdom, whilst last year it was not 9 per cent. A considerable tonnage of ironstone is raised in the southern part of the Principality, but considerably below what is required for the furnaces, so that a good deal has to be imported from Northamptonshire. For some years past there has been a rather rapid falling off, the quantity raised being in—

Year.

Ye

Year. Tons. Value.
Year. Tons. 969,714 £543,422
1871 1,247,594 744,465
1872 1,247,594 581,384
1872 343,926 581,384
1872 339,578 ************************ 495,840 1875

there were only eight works going, and 26 furnaces in blast, whilst last year there were nine works in operation, and 24 out of 76 furnaces using bituminous coal, and four furnaces using anthracitc. At Cytarthfa Mr. Crawshay has six furnaces which after being out of blast for some years are again being put in operation, and should the trade go on increasing it is not unlikely but we shall see all of them in blast. The mills belonging to the same gentleman, of which there are four, with upwards of 40 puddling furnaces, are again in motion, and it is to be hoped that before long all of them will be running fully. The production of pig-iron during the last few years has been

1871Tons 1,357,886 1875Tons 541,809 1876 1877 710.958 1878 There is one point, however, that should not be overlooked with

respect to South Wales, and that is whilst there has been a considerable decline in the malleable iron trade the introduction of the steel grade at several works has been most successful, and that is saying a arade at several works has been most successful, and that is saying a good deal with respect to a new industry. The Dowlais Company have now six Bessemer converters, one of them having a capacity of 7 tons 10 cwts., another 6 tons, and the third 5 tons. With some 17 or 18 furnaces as well, the Dowlais Company will, for production, be one of the largest in the kingdom, scarcely second to the well-known Barrow Hematite Company. The Ebbw Vale Company, at their various works in Monmouthshire, have 18 furnaces, and have put down six Bessemer converters, four of them being for turning our 6 tons of steel, and two with a capacity equal to 8 tons. The Rhymney Iron and Steel Company, with nine blast furnaces, about two-thirds of which have been in blast for some time past, have been actively engaged in the Bessemer rail department, having three converters with a capacity each of 7 tons, whilst the Blaenayon Company have two gaged in the Bessemer rail department, having three converters with a capacity each of 7 tons, whilst the Blaenavon Company have two converters of 8 tons each. In conclusion, it may be said that South Wales is now fully participating in the revival of trade, both coal and iron, with every prospect of its continuing, whilst the demand there is for Bessemer rails is such that the hands engaged at the furnaces, converters, and mill, are likely to have a long season of activity. Altogether, as we have before stated, what with the opening of the Cyfarthfa Works and collieries, and the increasing business that is being done in steel, everything shadows forth a better time for South Wales than it has had for a long number of years. being done in steel, everything shadows form a per Wales than it has had for a long number of years.

OUR EXPORTS OF RAILWAY IRON

Our exports of railway iron are at length beginning to exhibit some improvement, but we are bound to confess that they do not fully respond to the glowing statements which have passed current of late as to a revival in the iron trade. Thus the exports for October did not exceed 44,977 tons, as compared with 42,008 tons in October, 1878, and 56,048 tons in October, 1877. The increase in the shipments, as compared with October, 1878, will be seen to have been very small compared with October, 1878, will be seen to have been very small indeed, while as compared with October, 1877, there was a positive decrease. The experience acquired for the ten months ending October 31 this year was of a similar character, the aggregate exports of our railway iron for that period having been 392,171 tons, as compared with 391,597 tons in the corresponding period of 1878, and 419,161 tons in the corresponding period of 1877. The United States ranked third in October as consumers of our rails, having taken in that month 6468 tons, as compared with 78 tons in October, 1878, and nil tons in October, 1877. In the ten months ending October 31 this year the United States did not absorb, however, more than 28,575 tons of our rails, the corresponding imports in the corresponding period of year the United States did not absorb, however, more than 28,575 tons of our rails, the corresponding imports in the corresponding period of 1878 having been 703 tons, and in the corresponding period of 1877, 1049 tons. It is true that there has been a substantial increase this year in the consumption of our rails across the Atlantic, but this increase does not appear to have been of sufficient importance to justify crease does not appear to have been of sufficient importance to justify all that has been said and written upon the subject. Our principal foreign and colonial rail customers have ranked as follows this year in respect of the importance of their imports:—British India, 70,357 tons; British America, 62,220 tons; Australia, 50,447 tons; Russia, 37,839 tons; Italy, 32,083 tons; Brazil, 29,376 tons; United States, 28,575 tons. The Americans thus stand only seventh in the list.

It is in pig-iron that we witness the full force of the special American demand which has arisen. Thus, the imports of pig into the United States in October attained the very heavy aggregate of 87,491 tons, as compared with 3028 tons in October, 1878, and 1843 tons in October, 1877. The aggregate imports for the ten months end

tons in October, 1877. The aggregate imports for the ten months ending Oct. 31 this year were 164,134 tons, as compared with 23,282 tons in the corresponding period of 1878, and 31,622 tons in the corresponding period of 1877. The fact is the Americans have been unable to keep up their own supplies of pig-iron, in consequence of the extraordinary demand for rails which has suddenly sprung up on the next of Americans railword companies, and they have accordingly extraordinary demand for rails which has suddenly sprung up on the part of American railroad companies, and they have accordingly been casting about for pig in all directions. The serious question which has to be considered is whether this American demand even for English pig will continue. It must be remembered that the Americans have been eager importers of foreign ironstone of late. The North of Spain, the North of Africa, and other mineral districts have been ransacked to supply the American demand for ironstone; and the question is whether, with larger quantities of foreign iron ore available for their use, the Americans will not become more independent of English pig. If this is the case, the present brisk Transatlantic demand for our pig may subside as quickly as it has arisen.

arisen.

The activity now prevailing in the American iron trade has undoubtedly conferred one great benefit upon the British iron trade. It has very considerably strengthened prices, which had been reduced to a point of abject depression. The Belgian, French, and German iron trades have all participated in this benefit, and prices have been carried to a point at which there is some chance of profit, albeit that the rise in quotations has also brought about some advance in wares. But we are not at all equally clear that our rails vance in wages. But we are not at all equally clear that our rails have regained a market in the United States. The official statistics which we have summarised hardly support such a conclusion, although circumstances have been temporarily in favour of our ironmasters.

FLUID COMPRESSED STEEL.

The value of hydraulic power in connection with the production of steel of the highest class has been fully shown by what has been accomplished by Sir Joseph Whitworth, whose patented material has been subjected to the most severe test by the Admiralty. The patent, it appears, expires at the end of this month, and a few days patent, it appears, expires at the end of this month, and a few days ago an application was made to extend it, on the ground that the amount realised by it was not sufficient for the admitted value of the invention. In alluding to the invention Sir Joseph, at a large gathering, said the great novelty in his application of hydraulic power was in giving intense pressure to the fluid metal. In applying that great pressure to a column of metal it was diminished one-eighth of its entire length in less than five minutes, which showed the aways to say was done. By the process the sirvells eighth or its entire length in less than five limites, which showed the amount of work that was done. By the process the air-cells were expelled, and he did not know that there was anything which showed more clearly the value of the system than that they could have a column of metal 6 ft. or 8 ft. high shortened by one-eighth of its whole length in less than five minutes (1½ in. to the foot). It had been a dangerous and difficult process to carry out; but it had

been quite successful, even on a large scale.

For Her Majesty's vessel Inflexible he had completed two screw propeller shafts. They were 283 ft. in length, and their weight was 63 tons. The weight of wrought-iron shafts would have been 97 tons, so that by using the fluid-pressed steel they saved 34 tons, being driven round during the whole life of the engines. The strength of the metal in the shafts was 40 tons to the square inch, and the ductility—the power of extension in pulling bar assunder—was 30 per cent., which he considered to be the value of the metal. The shafts alluded to were 17 in. in diameter, and had a 9-in. hole through them. They were cast hollow, of course of much larger diameter, and with a considerably larger hole. They could not expel the gas when the metal was in a semi-fluid state, so it was found desirable to and with a considerably larger note. They could not expet the gas when the metal was in a semi-fluid state, so it was found desirable to get the pressure on as soon as possible after the metal was poured into the mould. The press had a power of 8000 tons, and in pressing the shafts the pressure was from 6 to 9 tons per square inch. They had not applied the press for forging iron, so that what they had done was confined to the fluid—pressed steel. As far as his experience went, the value of the hydraulic press was in proportion to the size of the mass—the larger it was the more beneficial and effective was the hydraulic pressure. The value of the pressure whilst the metal was in a fluid state was in proportion to the ductility required in the metal. If they wanted to produce steel which should have 30 per cent. of ductility they could not produce it at all without pressure—it would be full of air cells. If they wanted tool-steel where they had not much ductility, they might get about three-fourths of the length of their ingot comparatively sound, and the pressure in that case would be of very little value; but if they wanted to get steel which would be suitable for manufacturing purposes generally, then they could not produce it at all with the amount of ductility required of the tion of VORT

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quired without pressure. There was provision made for the escape of the gases, and there was considerable flame caused by their ignition during the time of their escape. The patent of Sir J. Whitworth, after hearing counsel, was extended for five years.

MINERS' ASSOCIATION OF CORNWALL AND DEVON.—The programme of classes to be held and prizes offered for competition during the current session in connection with the Miners' Association of Cornwall and Devon has just been issued, from which it appears that classes for the various subjects mentioned below are held at Redruth, Camborne, Tuckingmill, St. Agnes, Pendeen, St. Just, Hel-Redruth, Camborne, Tuckingmill, St. Agnes, Fendeen, St. Just, Helston, Hayle, St. Ives, Penzance, Chacewater, Truro, and Wheal Vor. It is mentioned that in addition to the numerous medals and prizes offered for general competition by the Science and Art Department, and by the City and Guilds of London Institute, to which the students may aspire, the prizes which will be awarded by the Council of the Miners' Association to the most successful pupils in the affiliated classes will implyed a free admission to the Royal School of Mines for classes will include a free admission to the Royal School of Mines for one year to one pupil annually; the Miners' Association Medal, which will be awarded to all students who shall have worked not less than will be awarded to all students who shall have worked not less than 12 months underground in some mine, and passed first class advanced stage in the principles of mining, and any two of the undermentioned subjects, and prizes in books (provided jointly by the Council and by the Editors of the Mining Journal and other newspapers connected with mining in Cornwall)—the average value being about a guinea—for best progress in inorganic chemistry, geology, mineralogy, principles of mining, practical chemistry, applied mechanics, machine construction, mathematics, theoretical mechanics, magnetism and electricity, steam, building construction, acoustics, light and heat, metallurgy, assaying, blowning analysis, and mine surveying. Affielectricity, steam, building construction, acoustics, light and heat, metallurgy, assaying, blowpipe analysis, and mine surveying. Affiliated classes have the advantage of supervision and occasional lectures from the lecturer to the Association. A copy of the Miners' Association report for each pupil. A discount of 20 per cent. in purchasing scientific works or manuals through the Association. The right to join in the annual excursion. The right to borrow books from the library; and the right to make use of the laboratory at Camborne under suitable regulations.

THE TIN LODES OF AUSTRALIA.—As there are still some who deny the existence of tin lodes in Australia, and predict the speedy termination of the tin mining industries of New South Wales and Queensland, notwithstanding the fact that Australian tin continues to come forward, and that Bensusan's Kangaroo brand is now acknowledged to supass in purity even the most celebrated Cornish brands, it may be interesting to learn that the Artizan Commissioner—a Cornish miner—appointed by the Society of Arts to report upon the mining products and apparatus, states that the New South Wales trophy representing the 32,027,130% worth of gold raised in the colony was standing on 1224 ingots of tin from the Pyrmont Tin Smelting Co., Sydney, a certificate of assay accompanying the Smelting Co., Sydney, a certificate of assay accompanying the ingots stating that the blocks contained 99-96 per cent. of pure tin. The commissioner mentions that this was smelted from tin ore raised in the colony, and concludes by stating that around these gots are bags containing nodules of stream tin and also exceedingly rich blocks of lode tin ore.

THE AMERICAN COPPER TRADE.—In his fifth letter to Mr. T. B' Potter, M.P. on the American import duties, Mr. J. S. Moore, of New York, deals with the copper tariff. Mr. Moore says that no copper mines in the world equal in richness the Lake Superior deposits. In 1878 one company owning the Calumet and Hecla Mines produced nearly 24,000,000 lbs. of pure ingot copper, or nearly 60 per cent. of the whole American production. During the last two years not only has the American consumption been supplied, but 11,297,876 lbs. were exported in the fiscal year ending June 30, 1878, and 17,200,739 lbs. in the fiscal year ending June 30, 1879. From 1792 to 1846 there was no duty at all on imported copper, but in the latter year a duty of 5 per cent. was levied on old copper. In 1867 all imports of copper were again declared free. In 1861 a duty of 5 per cent. was levied on copper ore, and 1½c. per lb. on ingots. In 1869 the following duties which are still in force, were imposed:—On ore, 3c. per lb of the fine copper contained; on old copper, 4c. per lb.; and on ingot copper, 5c. per lb. This tariff was vetoed by President Johnson, but was ultimately carried by both Houses of Congress. The result has, of course, been that copper mining in America has become a practical monopoly in the hands of the owners of the rich mines. The Calumet and Hecla Companies immediately amalgamated, and the shares that sold in 1869 for \$25 to \$30 are now selling at \$225. Mr. Moore calculates that the dividends paid in money and shares since Jan. 1, 1869, are equal to 200 per cent. per annum on the original cost of the shares, and challenges the companies to refute his statement. When coopers and challenges the companies to refute his statement. are equal to 200 per cent. per annum on the original cost of the shares, and challenges the companies to refute his statement. When copper ore was free from duty considerable quantities were imported from Chili, Canada, and elsewhere. In 1869, 14,572,656 lbs. of foreign ore were imported and smelted in Baltimore. The Baltimore works have now been shutup, and during the financial year 1878-9 only 241,042 lbs. of copper ore were imported and as year, perpit the same quantity. of copper ore were imported, and as very nearly the same quantity of foreign ore was exported this evidently represents merely a transit trade. The duty collected on new ingot copper in 1878—the latest year for which the exact figures are available—amounted to the ridiculous sum of 5c. As regards the consumers, American copper is sold abroad at from 2½c. to 3½c. below the price in America, and the English, French, and German cartridge makers using American copper been actually enabled to undersell the cartridge makers of

Gold Mining in Canada.—A correspondent of the Quebec Chronicle writes as follows:—"The township of St. George, Beauce, presents an appearance never before witnessed in this province. The Sir William Logan estate on Jersey Point, at the junction of the Riviere du Loup and the Chaudiere, is a scene of activity that promises well for the whole district; 120 men and 20 teams have been at work there for the last fortnight under the superintendence of an able mining engineer, and large machinery necessary for the overaable mining engineer, and large machinery necessary for the opera-tions has left here by the Quebec boat, which will astonish the popu-lation at the mines, they having been satisfied for years to pick up the gold out of the rivers whilst at low water. Other parts of the country are also making a stir, and gold is found and sold daily in

THE JET INDUSTRY .- One of the old industries of the Cleveland district is being revived in the reopening of jet mines. Though carrled on on a very small scale when compared with that of the domiinant industry of iron-mining, "jetting," as it is locally termed, is one of the special industries of the Cleveland district. There are arge numbers of men employed in the mines or pits, and though it may not be the largest jet working is the distinctive industry of Whitby. Found along the cliffs to the north of the town, and more extensively under the alum shale in the hills that range from the sea towards the black Hambleton moors; ietting gave employment in its towards the black Hambleton moors, jetting gave employment in its briskest years to hundreds of not ill-paid miners; for the work, though exhausting, was not dangerous, and demanded very little skill. But the large importations of recent years, and the dulness of trade
—affecting especially ornamental industries—gradually closed the
whole of the Cleveland jet mines or pits; and in the last return of
the Inspectors of Mines the "unknown" produce of the jet mines represents far less than the term usually does. But stocks of jet at
Whitby have been to a large extent exhausted, so far at least as English jet (which means usually Cleveland produce) is known; and the lish jet (which means usually Cleveland produce) is known; and the soft produce of Spain is neither so enduring nor capable of receiving so bright a polish as that of the home-found article, so that at last it has been found necessary to recommence in Cleveland the search for jet, though at first on a small scale.

DISCOVERY OF SILICA IN SUSSEX.—A most important discovery of a bed of pure silica has been made in Sussex, the value of which is especially interesting, as it will enable English manufacturers to obtain a supply of pure silex, unequalled by any they have been accustomed to procure from abroad. It would seem strange that this important deposit has remained so long neglected, but the fact is it is little brown; to the general public incompless in most of the

paint, plate, and even tooth-powder, the manufacturers conceal, as the French put it, "He that increaseth in knowledge increaseth also far as possible, this modus operandi, and the component parts of the in chagrin." substance made, as is exemplified in a recent case where a patent was upset, because the amount of silica (72 per cent.) necessary for ensuring sufficient hardness to china rollers was not specified. To the trade, however, the enormous value of an inexhaustible bed of pure silica will be at once apparent, and if the owner is sufficiently judicious to sell the product at a low price he will be able to close the English market against foreign competition.

REPORT FROM CORNWALL.

REPORT FROM CORNWALL.

Nov. 13.—There is very little to report this week, but that little is not of an unsatisfactory character. There has not unnaturally come a lull in the activity of the demand for mining shares, and probably matters will remain quiet for a short time longer. We prefer to call it a lull rather than a reaction, for although prices have suffered in most cases some decline, there is no belief that this arises from any untoward aspect of the metal market. The probability is that we shall see tin at a substantially higher figure yet by if not before the end of the year, and it is said that Mr. Boyns expects to find the figure up to 70% by the middle of February, until which time he has resolved not to sell the Wheal Owles stock. He is by no means alone in his conviction, for there has been a good deal of quiet, steady busiin his conviction, for there has been a good deal of quiet, steady business within the last few days, of which the public know little, but which has resulted in a considerable increase of the smelting interest in our best tin mines. These are the "coming events" that one likes to see casting their shadows before.

One cannot say that the progress of boring machines in the county

One cannot say that the progress of boring machines in the county is anything like rapid; however, we suppose it may be regarded as steady. Of late it seems to have been hindered rather than helped by the conflicting claims of rival companies. It is natural that managers should try to get the best, but it may be questioned whether managers should try to get the best, but it may be questioned whether there is so much difference between the better known ones as seems to be commonly believed. The Eclipse is just now doing excellent work in Botallack in the submarine part of that mine, and driving 8 fms. a month against 2 fms. by hand labour. It is not one of the least of the advantages of drills worked by compressed air that they ventilate as well as drive, and this is especially seen in such workings as those under sea in the St. Just district, where the ventilation is of necessity very imperfect, and where, so far from there being any extra amount of water, we find the dryest part of the mines. The Eclipse has also laid open a large quantity of ground at West Basset, whilst the merits of the Barrow, which proved for one thing the salvation of South Crofty, were fully expatiated on by MyLoam the other day at South Caradon. The Darlington is another machine that has done and is doing excellent work. It is stated that ere long Capt. Teague will introduce boring machinery into Cara Brea and Tincroft, and uquestionably it will be a very wise step. These and Tincroft, and uquestionably it will be a very wise step. These mines, like nearly all the concerns of any consequence, are just now looking remarkably well. Indeed, we question much whether there looking remarkably well. Indeed, we question much whether there ever was a time when the material prospects of our tin mines looked so bright, and copper and lead mines, too, appear to be in much better condition than for a long time past. There is really an enormous quantity of mineral ground now laid open in the county, which should pay handsomely for the taking away. Devonshire, except in the Tavistock district, where there are a good many signs of life, appears to lag behind. The depression there has really been far more severe in proportion to the area occupied than in Cornwall, taking the county at large, for it has amounted in the north of the county or practical annihilation, and in connection with Dartmoor proper to practical annihilation, and in connection with Dartmoor proper there is hardly a mine now left; yet we cannot but believe that matters must mend, and that, for example, such a district as that at Combinartin must have a future before it, while there is a good deal worthy of development at North Molton way and at various points in the Dartmoor borderland. The unworked mineral areas of Cornwall are, of course, far more extensive, but there is no apparent reason why any should be replicated. why any should be neglected.

REPORT FROM NORTH WALES, SALOP, AND CARDIGAN.

Nov. 12.—I have great pleasure in complying with the request made by "Miner," in last week's Journal, to state my reasons why I hold the opinion that copper in paying quantities will not be found in the county east and north-east of the Van Mines and Trefeglwys. It is quite true, as "Miner" says, that the Lower Silurian strata are present, or come to the surface, for some distance in that direction; but it is the upper portion of the ore strata—the summit of the Llanderlo with the overlying Bald or Caradoo beds that do so. Now, there is not. I helicuse an example in the world of a paying copport Llanderlo with the overlying Bald or Caradoc beds that do so. Now, there is not, I believe, an example in the world of a paying copper mine worked in these strata. The great and well defined horizon of productive copper mines in these old strata lies near the junction of the Lower with the Upper Cambrian, in the group of strata lying below the Lower Silurian. It is possible that if the mineralogical conditions under which great bodies of copper occur, consisting of the prevalence or proximity of felspathic, hornblendic, and dioritic rocks, prevailed in the neighbourhood the district might form an exception. But the fact remains that such rocks do not prevail in the upper portion of the Lower Silurian, and certainly they are conthe upper portion of the Lower Silurian, and certainly they are conspicuous by their absence in the district under consideration. I am aware that the Cambrian Mines may be adduced as an example of such an exceptional case; but first it remains to be seen if these can be profitably worked, which I hope may be so; and, secondly, these mines occur where the oldest strata in Cardiganshire are thrown up in an anticlinal ridge near the surface, which is a great point in

favour of these mines.

The revival in the slate trade has reached the Llangollen district, orders coming in to the quarries, and more men being employed. The revival in the iron trade, too, is most marked. The new British Iron Company's works, at Aurefair, which have until lately been overgrown with grass, have been re-started, and the men work in relays night and day. More activity prevails at the collieries, although there is no material advance in prices to record. At the southern end of the coal field Brynkynallt Colliery has re-started, and the Preesof the coal field Brynkynallt Colliery has re-started, and the Preesgwyn and Moreton Hall Collieries have begun to do a little. In rail-way matters, the promoters of the Welshpool and Llanfair Railway are wasting their energy in quarrelling. In Pembroke, the extension of the line from Rosebush Slate Quarries to Fishguard is progressing rapidly. A revival of the scheme for constructing a railway from Oswestry to Llangynog is also talked of, Mr. Lyons, the proprietor of Llangynog Slate Quarry, and Sir W. W. Wynn, M.P., being mentioned as the chief promoters, with Mr. W. Williams, of Oswestry, as secretary. An inquest was held last week touching the death of John Lysan Jones, who was killed at the Welsh Slate Quarry, at Festiniog. Lysan Jones, who was killed at the Welsh Slate Quarry, at Festiniog, recently by being carried up by a strap, and crushed against the roof of the machine-house; a verdict of "Accidental Death" was returned.

A batch of a dozen colliers were summoned before the magistrates at A batch of a dozen colliers were summoned before the magistrates at Hawarden last week for unlawfully absenting themselves from work at the Hawarden Colliery, near Buckley. It appeared that they had been accustomed to work with naked lights, but upon Mr. Gregory, the manager observing the presence of gas he required them for their been accustomed to work with naked lights, but upon Mr. Gregory, the manager, observing the presence of gas he required them for their own safety to use safety-lamps. This they refused to do, and left their work. They were convicted, but the colliery company gave up their claim for damages amounting to 12*l*, the colliers having to

pay costs.

The traction engine which formerly plied between the Llangynog Slate Quarry and Porthywaen, which was taken off the road in consequence of numerous vexatious prosecutions, was transferred to Portmadoc, to work between that port and South Snowdon Slate Quarry. Similar prosecutions have been commenced there. If they will precipitate the construction of a railway from Portmadoc to Beddgelert to the construction of the construction of a railway from Portmadoc to Beddgelert to the construction of a railway from Portmadoc to Beddgelert to the construction of a railway from Portmadoc to Beddgelert to the construction of a railway from Portmadoc to Beddgelert to the con we shall not complain: but it is annoying to find the little authorities so bent on hindering the development of trade in their

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

Nov. 13.—The coal trade is in a satisfactory condition, alike as to manufacturing and household sorts. Many of the pits are taxed to heir utmost to satisfy the demands which are made upon them, and their utmost to satisfy the demands which are made upon them, and there is every prospect of the excellent demand continuing. The colliers are pretty much settling down to their new wages, looking forward to another advance at a not very distant date. The iron-workers, however, are manifesting a determination if possible to secure a second rise in wages at once. They have, through their agent, just handed in a notice to the employers' secretary of the Arbitration Board, for a reconsideration of the wages scale, basing their claim upon the advance of 10s. per ton, which was made by the marked iron houses two days after the late award of M. Leeph

Arbitration Board, for a reconsideration of the wages scale, basing their claim upon the advance of 10s. per ton, which was made by the marked iron houses two days after the late award of Mr. Joseph Chamberlain, M.P. Ironmasters are this week consequently firmer than ever at the advanced prices. Buyers, however, hold off somewhat. The new price list of the Earl of Dudley gives his lordship's present quotations for bars—as lowest quality, 8l. 12s. 6d.; single best, 10l.; double best, 11l. 10s.; and treble best, 13l. 10s. His lordship's angle iron, as also strips and hoops varying from 14 to 19 w.g.; of the several qualities already mentioned are respectively, 9l. 2s. 6d., 10l. 10s., 12l., and 14l. Round Oak T iron, not exceeding 8 united inches of the qualities mentioned, are respectively 9l. 12s. 6d., 11l., 12s. 10s., and 14l. 10s. The new prices of Messrs. Wm. Barrows and Sons are for bars—B. B. H. crown, 8l.; B. B. H. best, 9l. 10s., and best best, 10l. 10s. B. B. H. plates are 10l.; best boiler-plates, 11l.; double best, 12l.; and treble best, 13l. Sheets of the same firm to 20 w.g. are 10l.

firm to 20 w.g. are 10t.

New American orders for barrel hoops and for baling strips are again being placed with Staffordshire makers, and at prices which are

again being placed with Staffordshire makers, and at prices which are a good rise upon the figures that regulated former contracts. It is calculated that orders for a total of 16,000 tons of barrel hoops have of late been placed on this side the Atlantic, and this district has secured the main part.

An explosion of fire-damp occurred on Wednesday at the Short Heath pit of the Pellsall Coal and Iron Company, by which six lives were lost. The deceased were four miners who were driving a heading in the fire-clay coal, Joseph Frost, the chartermaster, and Mr. John Slack, the chief engineer, both of whom had gone down to inspect the works. Death was caused by suffocation. Five widows

spect the works. Death was caused by suffocation. Five widows and over 20 orphans are left.

Mr. George Gill (late of the firm of Gill and Hildick, Walsall) and Mr. Thos. Addison Russell, late secretary to the firm of John Russell and Co. (Limited), have secured a plot of land at the Pleck, Walsall, as the site of works for the manufacture of tubes. The style of the new firm is Gill and Russel!.

new firm is Gill and Russel!.

At Messrs. Ludlow, Roberts, and Weller's sale, on Monday, thirty-five Birmingham Banking Company shares realised 16l. and 15l. 15s. per share respectively; Midland Banks, at 65l. 15s.; twelve Lloyds Bank, at 23l. 5s.; twenty Ordinary Patent Shaft and Axletree shares, at 4l. 1s. 3d., and forty preference shares in ditto, at 8l. 5s. per share. An incorrect rumour has found its way into print to the effect that the Team Valley Loowerks (Atteshead.on, Tyne, have been acquired).

the Team Valley Ironworks, Gateshcad-on-Tyne, have been acquired by Mr. Caleb Bloomer, of the Pelsall Coal and Iron Company. The real purchaser is Mr. Boaz Bloomer, who was Chairman and managing director of the Pelsall Company till 1877.

THE SHOCKING COLLIERY ACCIDENT .- Wolverhampton, Thurs-THE SHOCKING COLLIERY ACCIDENT.—Wolverhampton, Thursdar: The pit has been descended to-day by the manager of the Pellsall Coal and Iron Company, the owners, and by the assistant Mine Inspector of South Staffordshire, and other mining authorities. They found the workings free from gas and very little disturbed. The shaft was 150 yards deep: 50 yards from the bottom a scaffold had been erected, from which the six deceased approached two headings they were driving. It is feared that explosive gas had accumulated under the scaffolding, and that it fired at a candle dropped through the scaffold.

REPORT FROM DERBYSHIRE AND YORKSHIRE.

Nov. 13.—There has been very little change in the lead mining districts of Derbyshire of late, but there is every prospect that next year will be a more prolific one than the present has been, for the increased price of lead cannot fail to stimulate many of those working mines to make increased exertions to produce a larger quantity ing mines to make increased exertions to produce a larger quantity of ore. The improvement in the iron trade has been well maintained, and prices have been such as to repay those who have kept large slocks in hand, and several companies and firms were in that position two or three months ago. Large quantities have been taken by millowners in Staffordshire and other districts. It is quite probable that early in the new year some more blast-furnaces will be lighted, for the existing demand is not only likely to be fully maintained but to be querild relative to the second of the product of of th has been done, but there is still room for improvement as regards mill material. The foundries are also better employed, more especially in gas and water pipes. The Bessemer works at Dronfield keep busy, turning out large quantities of rails, a heavy tonnage of which is for shipment. During the last few weeks the house coal trade has been more active than during coars resistance. which is for supment. During the last few weeks the house coal trade has been more active than during any previous part of the year, although the prices have not gone up to the extent that might have been expected, for there has only been a comparatively slight advance on the summer rates. The demand for London has been particularly good of late, no less than 27,000 tons having been forwarded from Clay Cross alone during the month of October. The pits at Eckington have been busier than usual whilst those in the pits at Eckington have been busier than usual, whilst those in the neighbourhood of Chesterfield have also been doing well. Along the Erewash Valley business has also improved, both at the ironwor's and collieries, and the same may be said with respect to the more southern part of the county. A considerable tonnage of coal being sent over the Midland to Birmingham and the west, as far as Bristol and Buth. Steam coal moves off somewhat slowly, the ex-

Bristol and Bath. Steam coal moves off somewhat slowly, the ex ports having declined, but they have been very moderate during the summer months. In Sheffield trade generally goes on improving, and during the

remainder of the year the workmen will at most places be well employed. A considerable number of workmen have lately been put on at the Atlas and other works, where considerable orders are in hand for plates and other rolled material. Just now there appears to be the greatest activity at the shipbuilding works on the Clyde, and this will have the effect of increasing the demand for both iron and steel plates, and just now large quantities of the latter are being rolled for that purpose. In armour-plates there is a fair output, as there is also in other descriptions of war material for our own Govern-Makers of Bessemer rails continue busy, but new contracts to the heavy advance in the price of the raw material, ar material, are only taken at enhanced rates. Some good orders have been received from America for rails, cutlery, plain steel, and other materials, whilst pen and pocket knives, as well as razors, have been sent out in increased quantities to China, the East Indies, and Japan.

The South Yorkshire miners are still in a very unsettled state, there being two parties in the council, one in favour of restricting the output, expecting by so doing to raise wages, whilst the other is opposed to it. The consequence is that the Association runs the chance of foundering, as an attempt is being made to form a new one, allowing the lodges to keep their own money, instead of sending it to the secretaries. The coal trade, however, is good so far as

buseholds are concerned.

The strike at Berley Colliery still prevails, and about 1000 men The result is that instead of sending 8000 tons of and boys are out. Silkstone coal to London last month the quantity forwarded was only 400 tons.

MINING IN NORTH DEVON .- Explorations have just been made of a bed of pure silica has been made in Sussex, the value of which is especially interesting, as it will enable English manufacturers to obtain a supply of pure silex, unequalled by any they have been accustomed to procure from abroad. It would seem strange that this important deposit has remained so long neglected, but the fact is it is little known to the general public, inasmuch as in most of the trades in which it is largely used, such as glass, china, earthenware, silver-lead ore, and that the time will come when the adventurers will be deservedly rewarded.

will be deservedly rewarded.

BREACH OF COLLIERY RULES.—At the Barnsley Town Hall, on Wednesday, 12 miners were summoned for a breach of the 25th special rule at the Hoyland Silkstone Colliery on the 31st ult. by disobeying the orders of the hanger-on. On the above date the defendants went to work, when they found the south jenney partly blocked through a fall of roof. They had to wait three hours for it being cleared away, at the expiration of which they refused to commence work. They went to the pit bottom, when the hanger-on refused to let them ascend, and they commenced pushing the corves about, thus placing themselves and others in danger. Mr. Clegg, of Sheffield, who appeared for the defendants, contended that they were justified in leaving the pit under the circumstances. They were each fined 2s. 6d. and costs.

TRADE OF THE TYNE AND WEAR.

Nov. 12.—The coal trade has been considerably retarded this week owing to the want of ships, severe weather in the North and other seas having prevented the arrival of sufficient tonnage. In consequence many of the leading steam coal pits in Northumberland have only been worked partially, some less than half time. There are, however, sufficient orders on hand to keep the works going the are, however, sufficient orders on hand to keep the works going the week, and it is expected that nearly full time will be made in most cases at those works. At the Tyne Dock shipments of gas coal have been fair, and most of the best gas, house, and coking coal works are fairly kept going, there are, however, some exceptions of little moment. The increased demand for coal and coke is likely to be met perhaps a little too promptly by coalmasters by increasing the output of existing collieries, and reopening works that have been closed some time, owing to the depression. The North Biddick Collieries, belonging to Sir George Elliot and partners, has been reopened, and also the Brandon and Croxdale Collieries, Roughlea, near Hunurck, Whitelea, &c.—these latter are coking collieries. Negociation are also now pending as to the sale of three collieries in South Durham, two of which have been closed for some time owing to financial difficulties. The probable purchasers are Manchester gentlemen, and after elaborate viewing of the collieries they have made an offer, which forms the basis of the negociations. If these ultimately result in purchase, the pits will be at once recommenced. ultimately result in purchase, the pits will be at once recommenced.

A too rapid increase of the output may prevent the increase of prices which is so much required to enable the masters to realise fair profits on their operations. Caution is no doubt required in the operations of course speculators are now induced to invest in the coal and iron trades, as furnaces and collieries can be purchased at very low prices. Increased rates have been secured for pig and manufactured iron, and these increased rates are likely to continue, but the rates in the price of coal follow the rise in iron rates only slowly. House coal has advanced a little in price, and there are more enquiries for manufacturing and small coal.

The Iron Trade has been firmer, and stimulated by the fact that The Iron Trade has been firmer, and stimulated by the fact that there has been a net decrease of 18,700 tons in the last return of stocks, and also the improvement in the Scotch market. The rates have, however, been very irregular, and while some merchants have been talking of 43s., and state that sales have been made at that figure, others have been at 42s. No. 3; but the average rate may be put down at 42s.—makers ask 45s. The shipments of pig-iron have fallen off this week, but that has not had much effect on the market, as it is well known that large deliveries must be made during the month to supply contracts entered into some time since. Last month the shipments of iron to Wales were over 9000 tons—considerably in month to supply contracts entered into some time since. Last month the shipments of iron to Wales were over 9000 tons—considerably in excess of the usual quantity. The reports as to iron shipbuilding give encouragement of a larger demand for plates, and hence of a consumption of pig-iron. The deliveries for the United States are expected to be good. The prospects for next month are considered, on the whole, to be highly encouraging. The prices of manufactured iron are not much charged.

iron are not much changed.

The new sinking at Marsden continues to progress favourably. At Monkwearmouth it is in contemplation to sink a new shaft at Hendon The quantity of coal now laid open at these works is enormous, and the Maudlin seam at some points is 9 feet in thickness, with only 2 inches of band, the famous Hutton seam being 5 feet and upwards in thickness.

The chemical market continues firm, but business has not been so excited as last week; on the whole, however, prices keep well up, although some sales have been made at slightly lower rates. Quotations are for bleaching powder, 6l. 10s. 10s. net; soda crystals, 3l. 12s. 6d.; bicarbonate of soda, 10l. 2s. 6d.; sulphate of soda, 3l. 15s., &c.

There is a very marked improvement in the lead market, and in

There is a very marked improvement in the lead market, and in several of the Durham dales there is much fuller employment for the miners. The price of lead has risen from 13\(.\) per ton to 17\(.\) per ton for English pig, and as the tendency of prices is still upwards, it is hoped that stocks will be cleared shortly to a considerable extent, and this will lead to an enlarged production.

NORTH OF ENGLAND IRON TRADE.—The iron market at Middlesborough, on Tuesday, was numerously attended. It was ascertained that Messrs. Connal and Co., the warrant storekeepers of Middlesborough and Glasgow, had a stock in Cleveland amounting to 90,000 tons, the highest point yet touched. They expect to take in a fair quantity of iron this week. Storing is now of a much more healthy nature than it was a few months ago. The Glasgow stock of Messrs. Connal and Co. stands at 268,096 tons, being an increase in the week of 7896 tons. The Middlesborough market was reported to be rather weaker; but, as a matter of fact, pig makers continue to quote No. 3 45s. per ton, and did not show any anxiety to obtain orders. Mer-45s. per ton, and did not show any anxiety to obtain orders. Merchants quoted No. 3 at 42s. per ton. There is a good demand for pig-iron. Trade on the whole is in a better condition, and there is pig-iron. Trade on the whole is in a better condition, and there is a growing feeling that improvement is permanent. As as indication of the faith in the early future, there are seen on all sides preparations for doing more work. The Weardale Iron Company blew in a furnace on Monday, and will blow in another this week at Tudhoe. It is contemplated to put in operation the iron works at Tow Law, which have been idle for some time. Although the shipments of pig-iron from Middlesborough fell off last week, there is a steady inland trade going on, and blast-furnace owners are sanguine that trade will be better next year than it has been since 1874. Weak and small shelders of No. 3 offer parcels at 41s, per ton; but and small holders of No. 3 offer parcels at 41s. per ton; but this cannot be called the market price. There is more activity in the finished iron trade. For shipbuilding iron is in better demand, and prices are stiffening. Iron rails are quoted 51. 17s. 6d.; ship-plates, 61. 10s.; and bars, 61. 2s. 6d. There is unusual activity in the several foundries. Chairs and pipes of various descriptions are in great request. At some of the foundries the full resources of are in great request. At some of the foundries the full resources of the establishments are not equal to the pressing requirements. Engineers, too, are busier than they were. Some very fairly good orders have recently been secured by firms in this district. Messrs. Head, Wrightson, and Co., of South Stockton, are very busy on bridgework and general engineering. The several shipyards on the Tees look exceedingly bare just now, but the prospects are brightening. Messrs. Raylton, Dixon, and Co., of the Cleveland Dockyard, Middlesborough, have been commissioned to build an Atlantic steamer of 4000 tens burden. The same firm will shortly commence the construc-4000 tons burden. The same firm will shortly commence the construc-tion of four other steamers, so there is every likelihood of a very large number of men being employed at this extensive establishment during the winter.

The total production of pig-iron in Cleveland has been raised from a little over 52,000 tons monthly to 164,000 tons; and there has been a more than equivalent increase in the shipments from Cleveland ports. The largest part of the increased production hitherto has been in the Middlesborough district, whence the bulk of the shipments are being sent; so that it is apparent that hitherto the increased demand for pig-iron has chiefly been for use in other consuming centres. Several furnaces, however, have been and are being put into blast in the inland portions of the district—at Grosmont and Tudhoe for instance, so that it is evident that there is an increased demand for iron for the local forges and foundries. Very large orders have been received by iron shipbuilders on the Clyde, Tyne, and Tees, and the greater part of the iron for these will be sent from the Cleveland rolling mills,

which are well occupied with orders for plates and angles for the ship-building yards. This improved local demand for iron will com-pensate for the decrease in the shipments usually experienced at this pensate for the decrease in the shipments usually experienced at this season of the year. Although, so far as is known, no additional orders for pig-iron for the United States have been placed, two for bar or manufactured iron have been obtained by Cleveland firms, and one of considerable magnitude for steel rails is being executed at the Eston Steelworks. The production of steel in the Cleveland district is being enlarged, the Rosebery works having commenced operations at Middlesborough, whilst good progress is being made with the Bessemer works in course of erection at Darlington and Guisborough.

REPORT FROM MONMOUTHSHIRE AND SOUTH WALES.

REPORT FROM MONMOUTHSHIRE AND SOUTH WALES.

Nov. 13.—On Monday Mr. Henry Russell Evans was unanimously elected Mayor of Newport. Mr. Evans is well known in the financial circles of the Metropolis. In his remarks when installed in the civic chair he expressed the hope that the time was not far distant when the first sod of the railway connecting the port with the rich coal producing district of the Rhondda Valley would be out. At the London Bankruptcy Court an application has been made to expunge the proof against Mr. W. Wake, of Sheffield, for 6497l., in the affairs of Mr. W. T. Henley, late of the Pontenewydd Works, who failed in 1875. An adjournmant took place to Nov. 21. Messrs. D. Davies and Son, owners of the Ferndale Collieries, have come to an arrangement with their men, which I give in extenso:—"It is hereby agreed and Son, owners of the Ferndale Collieries, have come to an arrangement with their men, which I give in extenso:—"It is hereby agreed that the following sliding scale to regulate wages be adopted from Dec. 31 next, 1879:—1. That the present rate of wages paid shall be due to the workmen when the selling price of large steam coal, free on board at Cardiff, is ascertained to be 8s. 6d. per ton net.—2. That for every 1s. per ton advance in the selling price, free on board at Cardiff, the workmen are to receive 7½ per cent. advance in wages, based on the present rate of wages paid, and for every equal decline in the selling price a reductson of wages to the same extent is to be based on the present rate of wages paid, and for every equal decline in the selling price a reductson of wages to the same extent is to be submitted to by the workmen.—3. That when an advance or decline of 6d. per ton on the present selling price of 8s. 6d. per ton net, free on board at Cardiff, be ascertained by the accountant to have taken place, then 3\frac{3}{4} per cent. (or 9l. in 1l, on the present rate of wages paid) shall be advanced or reduced as the case may demand.—4. That an accountant be appointed to ascertain the selling price at Cardiff at the end of every three months, from Dec. 31, 1879, and the wages due according to his finding are to rule for the following three months, and so on for every three months during this agreement.—5. That this agreement shall be in force for two years from Dec. 31, 1879, and at the expiration of that period it shall be subject to be terminated by a six months' notice on either side.

The serious illness of Mr. Menelaus, of Dowlais, is announced; to-day, however, he is reported to be a little better. The iron trade during the past week has been active, and the clearances made have been large, and mainly to the United States. Things are brisk at Cyfarthfa, the rails being daily sent by canal for shipment at Cardiff. It is in contemplation to start the furnaces at Ynysfach, and the news is now confirmed that the Plymouth works have been purchased. At several of the works more activity is reported to exist, and good news in this respect comes from Treforest. The demand has been good, and finished descriptions sell at slightly enhanced rates. The enquiry for rails is fairly good. Bars are also in rather better request. Pig-iron is also tolerably well enquired for. The demand for tin-plates is also well maintained. The Tydee and Rogerstone Works, near Newport are shortly to be restarted. Mr. Henry in the selling price a reductson of wages to the same extent is to be

mand for tin-plates is also well maintained. The Tydee and Rogerstone Works, near Newport, are shortly to be restarted, Mr. Henry Evans being the manager. It is stated that Messrs. Conway and Co., of the Ponterwydd Works, have resolved to go back to the old rate of wages prevailing three months ago. Makers still ask increased wages creased prices.

The wages question is still existing in the coal trade. The Plymouth colliers ask more wages; and a deputation of the house colliers of Monmouthshire and Glamorgan have met the associated proprietors at Cardiff. What the men really wanted was a return to those wages in force at the end of 1877, or an advance of 15 per cent. in reality. The masters replied that the revival in trade and not yet been sufficient to justify any increase in wages, as prices had not yet those wages in force at the end of left, an advantage and not yet been sufficient to justify any increase in wages, as prices had not yet improved. A section of the men have held a meeting, at which they approve of forming a new sliding scale. The demand for coal is good, steam qualities being well enquired for both on home and foreign account. The house coal enquiry is also rather more active, but no change has been effected in prices to any material extent. Proprietors still hesitate to take large orders at present prices. Patent fuel is rather slow.

GRAND DUCHESS MINE, CARMARTHENSHIRE

Nov. 11 .- The cross-cut I instructed to be put out from bottom of Nov. 11.—The cross-cut I instructed to be put out from bottom of new shaft on the Bonville section the last time I was here has intersected one of the Butt group of lodes, and I am pleased to say that it is, as reported by the secretary, "a splendid lode," and worth fully 3 tons per fathom. As this point of intersection is under the costean pits on surface, where we found such large boulders of solid lead ore (some weighing over 200 lbs.), I think our prospects are very encouraging. We shall at once bring up a new adit from the deepest point we can advantageously command on the Bonville side of the hill, and this will attain a depth of about 18 fms. under the cross-cut referred to. At the same time we should prepare to bring up the

hill, and this will attain a depth of about 18 fms. under the crosscut referred to. At the same time we should prepare to bring up the
deep adit from the Towy side, which under the same point will have
a cover of 32 fathoms. This section of the property would then be
thoroughly opened up, and ventilated from one valley to the other
for a distance on the course of the lode of about 500 fathoms.

The grant contains two groups of lodes, running nearly parallel all
through the sett, at a distance apart of about 100 fms.—the Butt
group and the Smith-shop group. At the Smith-shop we have three
lodes within a space of about 10 fathoms. Our new shaft here is
being sunk on the middle of these lodes, and the lode at bottom of
the shaft is worth about 1½ ton per fathom. After we get this shaft
down to 20 fms. we shall cross-cut for the other lodes. In the meantime, we shall costean on the Bonville side for the same lodes, with time, we shall cost an on the Bonville side for the same lodes, with a view of bringing up a new adit to meet the one started on the Towy side, from which we have already sold a parcel of 23 tons of

Towy side, from which we have already sold a parcel of 23 tons of lead ore by hand-picking.

The Butt group of lodes contained a vein of barytes 3 ft. to 4 ft. wide, and it is of very fine quality. The lead ore is of very fine grain, and containing a good percentage of silver. The last parcel we sold, and which, as I have stated, was dressed without aid of machinery, realised 13l. 15s. per ton.

I think the Bonville side of the hill will be the best to erect the first dressing-floors upon, and we have fixed upon a convenient site within about 200 yards from the turnpike-road, and 2½ miles from Carmarthen railway station. Considerable delay has occurred through unexpected difficulties in the transfer of deeds: but these matters being now satisfactorily arranged we can go ahead to develope the property on both sides of the hill without further hindrance, and with every prospect of success.

John Davis.

Tead ORES.
Tons. Price per ton.
15 #13 13 0
.100 15 3 0
.150 11 16 0
.50 11 16 8
.50 12 15 0
.50 12 13 6 Purchasers.
Weston, Son, and Co.
ditto
Walker, Parker, and Co.
Adam Eyton.
Walker, Parker, and Co.
Adam Eyton. te. Mines.

8—Monydd Gorddu...

11—Isle of Man

13—Roman Gravels ...

ditto ... 12 8 6 12 2 6 11 12 6 11 12 6 11 12 6 11 12 5 12 5 0 12 7 6 12 15 0 12 3 6 Walker, Parker, and Co.
ditto
Quirk, Barton, and Co.
ditto
Walker, Parker, and Co.
Adam Eyton.
Walker, Parker, and Co.
Quirk, Barton, and Co.
Adam Eyton. -Prince Patrick - ditto (round) ... -Rhydalun Date. Mines.
Nov. 6-Monydd Gorddu...
12-Talargoch
13-Van
- ditto

WANTED,—A WATER WHEEL, 2 feet breast and 30 feet high.

Apply to H. D. Pochin and Co., Quay-street, Salford.

WANTED, — An 8-horse power PORTABLE ENGINE, and a 7-feet MORTAR PAN.
Address, "B. B. J.," Oxford House, Stokes Croft, Bristol.

WANTED a PERSON OF GOOD CONNECTION AND EXPERIENCE as SALESMAN in the METAL TRADE in LONDON.

Salary, £150-£200.

Apply, by letter, to "Wainwright," care of Deacon's Advertisement Offices, 154, Leadenhall-street, E.C.

MANGANESE.

WANTED, TO PURCHASE, IN REGULAR QUANTITIES.— Reply, with full particulars, to "8. 163," care of Henry Greenwood, 2, York-street, Covent Garden, London.

FLUOR-SPAR.

WANTED, TO PURCHASE, IN JOB LOTS, OR IN REGULAR QUANTITIES.—Address, "F. 42," care of Henry Greenwood, 2, York-street, Covent Garden, London.

WANTED, a FEW GENTLEMEN to complete a SYNDICATE for the PURCHASE of EXISTING MINING RIGHTS, and the FORMA-FION INTO a COMPANY of an extensive really good and valuable Sett in the South-West of England. £6000 is required, of which nearly half is already sub-Address, "G. D.," Hartman's, Rood-lane, London, E.C.

TO CAPITALISTS, PROMOTERS, INVESTORS, &c. MINING ENGINEER of large experience in the WEST OF ENGLAND is in a position to obtain VALUABLE MINERAL GRANTS for clients on easy terms, and to INTRODUCE PROGRESSIVE PROPERTIES requiring very little additional expenditure to enable considerable returns to be made. With improved trade large profits are certain, address, "C.B., F.G.S.," MINING JOURNAL Office, 26, Fleet-street, Londen.

TO PARENTS AND GUARDIANS. TO PARENTS AND GUARDIANS.

N ELIGIBLE OPPORTUNITY is now offered for the SETTLEMENT of an ACTIVE YOUNG GENTLEMAN IN CANADA. He will be enabled to obtain his profession as a Solicitor in five, or if he be a Graduate in three years. Cost of living about £150. In the meantime he will have active work, and obtain a knowledge of the Dominion, which is destined to become one of the most prosperous of the Colonies. Premium, £100 sterling.

HERBERT C. JONES,

32, Wellington-street, Toronto.

GYPSUM AND LIMESTONE. GYPSUM AND LIMESTONE.

THE OWNER of an ESTATE in SUSSEX, under which there is a considerable bed of GYPSUM and LIMESTONE, will be willing to ENTER INTO ARRANGEMENTS with PARTIES OF STANDING, who would UNDERTAKE THE WORKING THEREOF, either in shares or on a reyalty. The adjoining property is now in work, and the kilins and machines in action, and a branch railway connected with the South Eastern Railway.

For further particulars, apply to J. C. MAPPIN, Broadfield, Reigate.

ASBESTOS.

THE ADVERTISER CAN OFFER A MINE, the ASBESTOS of which can be delivered in London for about £10 per ton. The selling price is £130 to £150 per ton when prepared; costs £5 per ton preparing (or a contract can be made for any quantity).

The Advertiser (who is a well known Chemist) has TWO NEW USES, or applications, for ASBESTOS, both of which will pay well. Also, a newly-invented EXPLOSIVE, which is safer and stronger than Dynamite, FOR SALE. Would suit a company.

Apply to "R. P.," 16, St. Michael's-place, Brighton.

£100 TO £10,000

OBTAINABLE BY INVESTING £1 to £20 in BONDS, with INTEREST COUPONS attached, payable to bearer. As safe as the Apply to JAMES RUSSELL, 98, London Wall, London, E.C.

TO BE SOLD.

WING to the DEATH of the PRINCIPAL PROPRIETOR his SHARES in a PROMISING LEAD MINE, in DENBIGHIRE, NORTH WALES, are now FOR SALE.

For particulars, apply to "W. C. P.," Tyddyudai, Amlwch, Anglesey. SOUTH CAMBRIAN MINES.

SOUTH CAMBRIAN MINES.

TO DISPOSE OF, TWO HUNDRED AND FIFTY SHARES, at
a low figure, to an immediate buyer. Advertiser requires the money to
carry on his own business. This Mine is proving one of the most valuable in
Cardiganshire. See Reports in Mining Journal,
Address, "B. G.," 142, Crown-street, Liverpool.

TO BE TREATED FOR, a VALUABLE MINING SETT, near ASHBURTON, with ENGINES, PITWORK, and PLANT complete,—Apply, Messrs. WINDEATT and WINDEATT, Solicitors, Totnes, Devon.

FOR SALE,—SCREW TUG and WATER BOAT (IRON), 48 ft. by 9½ ft.; TWO 8 in. STEAM PUMPS, with engines and boller attached, suitable for contractors, &c.; a SCREW YACHT and a SCREW LAUNCH, lengths respectively 60 ft. and 40 ft. ALL CHEAP. Address, "Steamer," at C. H. May and Co.'s General Advertising Offices, 78, Gracechurch-street, London.

TO IRONSTONE COMPANIES.

POR SALE, the ROYALTY of a VALUABLE SEAM or SEAMS of IRONSTONE (CLAY CARBONATE), NINETY-FOUR ACRES, situated at IPSTONES, near FROGHALL, STAFFORDSHIRE.

For analysis and terms apply to the Owner, Mr. H. J. HALL, Eastfield, Peterborough.

POR SALE, the WHOLE or PART:
100 E. Crebor, £136. 100 South Cambrian, 15s. 70
100 Bettws-y-Coed, £1 1s. 5 D'Eresby Moun., £30.
20 Hornachos, £8. 50 Parys Corpora, 17s 6d
Address, H. WILKINS, 3, Heybourne Villas, Tottenham. 70 United Van Consols and Glyu, 10s.

HOR SALE, an excellent BEAM ENGINE, 18 in. cylinder, 4 ft. stroke, link motion, working high pressure, with indicator, drum, and winding gear, complete, and all in good working order.

Apply to Mr. E. J. BARTLETT, No. 30, Great 8t. Helen's, London, E.C.

POR SALE, at NEW PEMBROKE MINE, CORNWALL:—
Au excellent 25 in. DRAWING ENGINE and TWO BOILERS.
TWO SPARE BOILERS.
THREE IRON STAMPS AXLES.
100 fathoms FLAT RODS, 3½ inch.
10 arm CAPSTAN IRON AXLE.
A quantity of ROD PLATES and OTHER MATERIALS.
Apply to Mr. John Polkinghorne, Woodlands, Par Station.

SPECIALLY RECOMMENDED TO INVESTORS.

TAST CREBOR SHARES have been largely bought during the week. It is the adjoining Mine to CREBOR, and possesses the IDENTICAL Lodes. Every discovery in Crebor enhances the value of East Crebor, which has already sold nearly £40,000 worth of rich copper ore, and in sinking the shaft a few fathoms the junction of Crebor Lode with the North Lode will be met with, and in all probability a great deposit of ore discovered. Shares are in great demand at 1½ to 1½.

Plans (showing relative positions of Crebor and East Crebor) of J. Scott and Co., Palmerston Buildings, Old Broad-street, E.C.

M. R. EDWARD TRYTHALL, Purser of the Providence Mines, Lelant, and Spearn Moor Mine, St. Just, Penzance, Cornwall, has RE-MOVED from the "Albert Stores," Penzance, to 35, WALLROOK, LONDON, E.C., where he solicits the commissions of his friends. ALL BUSINESS enrasted to him as a PUBLIC ACCOUNTANT, AUDITOR, &c., will meet with careful and prompt attention.

R. WILLIAM BREDEMEYER, MINING, CONSULTING and CIVIL ENGINEER, U.S. MINERAL SURVEYOR for UTAH and IDAHO. NOTARY PUBLIC.
Geological examinations; reports on mining properties; surveys mines, rail roads, and canals, and superintends the workings of the same; prepares estimates and plans for opening and working mines. Expert en mining questions before the Courts.

Address, P.O. Box 1157,"Balt Lake City, Utah.

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PRACTICAL MINING AND INSTRUCTION IN

R. B. KITTO, F.G.S., Lecturer and Assistant Secretary to the Miners' Association of Cornwall and Devon, is prepared to RECEIVB PRIVATE PUPILS. Field and class lessons in Mineralogy, Geology, Dressing of Ores, &c. Underground training by experienced Mine Agents.

For particulars, apply to Mr. B. KITTO, Camborne, Cornwall.

MR. CHARLES BAWDEN, ST. DAY, SCORRIER,
CORNWALL,
From long practical experience is enabled to ADVIBE CAPITALISTS as regards
the PRESENT PRODUCTIVENESS and PROSPECTIVE VALUE of the
different MINES throughout CORNWALL.

CRANSTONHILL ENGINE WORKS, GLASGOW.

ALEX, CHAPLIN AND CO.

THIS BUSINESS having been ACQUIRED by the SUBSCRIBER (practical partner of the late firm for the past ten years), will henceforth be CARRIED ON BY HIMSELF as SOLE PARTNER, under the same firm of ALEX. CHAPLIN AND CO.

Having arranged to retain the services of those who have managed the details of the business for a number of years, he hopes, from their and his practical experience and personal attention, to merit a continuance of the patronage so long accorded to the firm.

Mr. John Cluston, of 63, Queen Victoria-street, London, E.C., will act as agent for the firm there.

HENRY WILLIAM BALL,

HENRY WILLIAM BALL,

Glasgow, 11th November, 1879.

George's-place, Glasgow.

THE PATENT SAFETY GUNCOTTON COMPANY (LIMITED).

THE LIQUIDATORS of this COMPANY are prepared to RECEIVE OFFERS for the PURCHASE of the WORKS and PLANT of this well known undertaking, as a whole or going

concern.

The WORKS, which are situated in STOWMARKET, SUFFOLK, may be viewed by appointment with Mr. E. C. PRENTICE, Stowmarket; or by arrangement with Mr. R. S. ARCHBOLD, at the Company's Office, No. 2, New Broad-street, London, and where also full articulum can be abtained. particulars can be obtained.

E. C. PRENTICE, R. S. ARCHBOLD, Liquidators.

THE DIRECTORS OF THE ENGLISH AND SCOTTISH BOILER INSURANCE COMPANY (LIMITED) are prepared to APPOINT AGENTS on liberal terms. Apply to the Secretary, 100, King-street, Manchester; or 81, St.

TWO COMPLETE SETS OF ROCK-BORING PLANTS.

PART 1—Consisting of 12 in. by 2 ft. ENGINE and COM-PRESSOR; THREE 3 in. ROCK DRILLS; 550 yards 2 in. wrought-iron tube; hose and unions for drills, &c.,—in full working order. PLANT 2.—8 in. ENGINE and COMPRESSOR, with 20 in. stroke; VERTICAL BOILER; drills, hose, and pipes, &c., -in full working

Apply to Mr. J. H. HARRISON, 20, St. Werburgh-street, Chester.

IMPORTANT DISCOVERY OF SILICA IN SUSSEX. An INVESTMENT in the SHARES of the SILICA COMPANY (LIMITED) promises a return of greater magnitude than is afforded by many of the most lucrative Dividend-paying Mines.

THE SILICA COMPANY (LIMITED).

Nominal capital £500, divided into 400 A Shares of £1 each, and 100 B Shares of £1 each, to be paid up in full on allotment.

AUDITORS—Messrs. WILLIAMS and CO., 13 and 14, King-street, Cheapside, E.C. BANKERS-Messrs. RANSOM, BOUVERIE, and CO., 1, Pall Mall East. SECRETARY-A. J. POULTER, Esq.

THE SHARES of the SILICA COMPANY (LIMITED) are reserved solely for subscribers of the debentures issued upon the securit of the HORSE GROVE QUARRIES, in SUSSEX.—Vide following advertise

DISCOVERY OF SILICA IN SUSSEX.

I SSUE OF FOUR HUNDRED FIRST MORTGAGE DEBENTURES of £25 each, bearing interest at the rate of 5 per cent, per annum, payable quarterly, representing a total charge of £10,000, secured upon the FREEHOLD PROPERTY known as the HORSE GROVE QUARRIES, situate at Rotherfield, Sussex, which has been valued on behalf of the METROPOLITAN AND PROVINCIAL LAND CORPORATION at £28,000.

Subscribers for these debentures are privileged to apply for and receive an allotment at par (pro rata) of A Shares in the SILICA COMPANY (LIMITED).

Trustees for Debenture Holders: The Rev. Charles W. Williams, D.D., F.R.A.S., Rector of Christ Church, Brondesbury; and Alfred Ford, Esq., 17, George-street, Hanover-square, W.

Full particulars and sample will be forwarded on application to the Secretary of the Metropolitan and Provincial Land Corporation, No. 86, Regent-street, London, W.

DISCOVERY OF SILICA IN SUSSEX.

INTERIOR IN SUSSEX.

SUE OF ONE HUNDRED SECOND MORTGAGE
DEBENTURES of £50 each, bearing interest at the rate of 7 per cent. per
annum, payable quarterly, representing a total charge of £5000, secured (after
providing for the repayment of the first mortgage of £10,000) upon the abovementioned property.
Subscribers for these debentures are privileged to apply for and receive an allotment at par (pro rata) of B Shares in the SILICA COMPANY (LIMITED).

DISCOVERY OF SILICA IN SUSSEX.

THE METROPOLITAN AND PROVINCIAL LAND CORPORATION are authorised to RECEIVE SUBSCRIPTIONS for the DEBENFURES referred to in the foregoing advertisements. A deposit of 10 per cent. is required npon application, and the balance of the full amount of each debenture is payable immediately after allotment, no further liability whatever being incurred.
Full particulars on application to—
No. 86, Regent-street, London, W., November. 1879.

PONTGIBAUD SILVER-LEAD MINING AND SMELTING
COMPANY.

The ORDINARY ANNUAL GENERAL MEETING of the Shareholders of the
above company will TAKE PLACE, in Paris, at the offices of the company,
No. 15, Rue de Châteaudun, on SATURDAY, the 29th day of November instant,
at Three o'clock P.M. precisely.
The qualification to take part in this meeting is the holding of 20 shares, which
must be deposited at the office, in Paris, or at the Agency, in London, ten days
before the meeting takes place.
Shareholders may be represented by proxies at the meeting, but no one can be
the bearer of a proxy unless he himself is the owner of 20 shares.
Proxies must be upon French stamped paper, and according to the form, which
can be obtained at either of the offices of the company.
London Agency: 5, Queen-street-place, 13th November, 1879.

London Agency: 5, Queen-street-place, 13th Novem

NEW QUEBRADA COMPANY

(LIMITED).

Notice is hereby given, that the ORDINARY GENERAL MEETING of this company will be HELD at the City Terminus Hotel, Cannon-street, on THURSDAY, the 27th day of November, 1879, at Twelve o'clock noon, for the purpose of receiving the directors' report, with balance-sheet and accounts, for the half year ended 30th June last; for the election of directors and auditor; and for transacting the general business of the company.

The Transfer-books will be closed from Thursday, the 20th of November, to Saturday, the 29th November, both days inclusive.

By order of the Board,

Offices of the Company, 2, Walbrook, London, Nov. 8, 1879. NEW

CHARRIOT DERS of the CONSOLIDATED AMADOR VOLOANI HYDRAULIC MINING COMPANY are hereby notified that at the forthcoming STOCKHOLDERS' ANNUAL MEETING the following will be submitted for their adoption:—

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be submitted for their adoption:—

1.—To revise the constitution and bye-laws of the company.

2.—To declare a dividend out of its earnings.

3.—To increase its capital stock from one million dollars to ten (\$10,000,000) millions of dollars, divided into 100,000 shares of \$100 each.

4.—To exchange certificates of old shares for new ones, at the rate of ten new shares of \$100 each for each old share of \$100.

Stockholders only whose shares have been deposited by them, or by their proxies, with the Secretary ten days previous to the date of the annual meeting will be entitled to vote.—San Francisco, Oct. 27, 1879.

Will be entitled to vote.—San Francisco, Occ. 27, ACC.

PROFESSOR GUTHRIE, F.R.S., will COMMENCE a COURSE of about SIXTY LECTURES on PHYSIOS at half-past Eleven A.M., on MONDAY next, the 17th inst., to be continued at the same hour on each succeeding week day, except Saturday. These Lectures will be delivered at South Kensington. Fee for the Course, 42: for the Laboratory Practice, 212.

OUURSES OF EVENING LECTURES on some of the SPECIAL APPLIOATIONS of PHYSIOS to the ARTS are now being organised. These will be commenced at the conclusion of the foregoing Course. Further details will be shortly published.

F. W. RUDLER, Registrar.

J. S. MERRY, ASSAYER AND ANALYTICAL CHEMIST, SWANSEA. SUPPLIES ASSAY OFFICE REQUIREMENTS AND RE-AGENTS.

TO QUARRY AND MINE PROPRIETORS.

TO QUARRY AND MINE PROPRIETORS.

R. DAVID JONES has received instructions TO SELL, BY PUBLIC AUCTION, on Tuesday, 18th November, 1879, at the CWM DWYFOR MINES, distant about 12 miles from PORTMADOC, on the Gorsedd Junction and Portmadoc Railway, the

MINING PLANT, comprising:

WATER WHEEL, 35 ft. by 4 ft., crusher and compections, drum 10 ft. by 6 ft., ditto 3 ft. by 7 ft., double crab winch, two wire ropes, about 300 yards each, quantity of pump rods of different dimensions, pumps of various sizes, turnout plates and points, incline rollers and stoo's, wagons, patent weighing machine, scales and weights, wheel and hand barrows, quantity of air pipes, stoves, pulley wheel and stands, water troughs and stand, iron kibbles, smiths' bellows, vice, and tools, grinding stone, quantity of planks, and other timber.

The whole of the above materials are in excellent condition, and most of them as good as new.

Sale to commence at half-past Twelve o'clock.

as good as new.

Sale to commence at half-past Twelve o'clock.
Further particulars may be obtained on application to Mr. G. J. Gray, St.
Clement's House, Clement's-lane, London, E.C.
Mr. W. GAYER, of 16, Ohapel-street, Portmadoc, will show the Machinery to
any person desirous of inspecting it.

ELIGIBLE INVESTMENT.

CALSTOCK, CORNWALL.

MESSES. WARD AND CHOWEN WILL SELL. BY PUBLIC AUCTION, on Tuesday, the 25th day of November next, at Two o'clock P.M., the WHOLE of the PLANT, MINE MACHINERY, and MATERIALS, consisting of ONE 25 in. cylinder PUMPING ENGINE and TWO BOILER; ONE 24 in. cylinder WINDING ENGINE, and ONE BOILER; 30 fathoms of pitwork; 12 heads of stamps; crusher; 30 ft. WATER-WHEEL, by 2½ breast; tram rails, wagons, winches, capstan, shears, whim, rope, and the usual mine equisites, together with the MINE SETT, known as the

equisites, together with the MINE SETT, known as the PRINCE OF WALES MINE,

Situate in the parish of Calstock, Cornwall, which will be offered for sale at the Count House on the Mine as a going concern, in One Lot.

The mine is held under a lease granted by the Duchy of Cornwall for a term of twenty years, seven of which are unexpired, subject to an annual dead rent of £30, which merges into dues

A copy of the lease can be seen at the office of the auctioneers.

For viewing the same, apply to Captain Andrews, residing at Wheal Crebor, Tavistock; conditions of sale and further particulars, to the Auctioneers, at Burnville, Bridstowe, and Tavistock, Devon; and of ALEX. KERLY, 14, Great Winchester-street, London.—Dated 13th November, 1879.

LLANELLY, CARMARTHENSHIRE.
IMPORTANT SALE OF VALUABLE IRONWORKS. MR. S. N. POWELL has received instructions TO SELL, RY AUCTION, at the Mackworth Arms Hotel, Swanses, on Wednesday, Wovember 26th, 1879, at Two o'clock in the afternoon, the EXTENSIVE IRON-WORKS known as the

WORKS known as the

OLD RODGE IRON WORKS,

At LLANELLY, comprising—

TWENTY-EIGHT PUDDLING and HEATING FURNACES, PLATE, MERCHANT, PUDDLE BAR, and GUIDE MILLS; TWO STEAM HAMMERS; and
the necessary FLANT, &c., for an output of from 200 to 230 tons per week of
finished iron in plates, sheets, merchant, angle iron, and coke tin bars.

For further particulars, apply to R. W. Pret, Esq., Copper Works, Llanelly;
the Auctioneer, 13, Park-street, Llanelly; or Messrs. Gaskoin and Fry, Solicitors,
Swansea.

IN LIQUIDATION.

IN THE MATTER OF THE COMPANIES ACTS, 1862 AND 1867, AND IN THE MATTER OF THE ST. HARMON LEAD MINING COMPANY (LIMITED).

TO BE SOLD, BY PUBLIC AUCTION, at the Mart, Tokenhouse Yard, London, on the 15th day of December, 1879, at Two o'clock, P.M., by Mr. J. M. KLENCK, by Order of the Liquidators of the above-named Company, the LEASE of the

ny, the LEASE of the

ST. HARMON LEAD MINE,
at TWLCH, near LLANIDLOES, in the county of MONTGOMERY,

Also, the VALUABLE PLANT and MACHINERY, as per Inventory, which will be produced at the time of sale.

Also, the VALUADILE LANGE WHITE AND WILL BE WELL BY A WILL BE WILL BE WELL BY A WILL B ALEXANDER Assured to the Auctioneer—
sale and an Inventory of Plant and machine.
Liquidators; also of the Auctioneer—
MR. J. M. KLENCK, Auctioneer,
4, Bishopsgate-street Without, London.

TO BE SOLD, BY PUBLIC ROUP, within the Faculty Hall, St. George's-place, Glasgow, on Wednesday, the 19th day of November, 1879, at Two o'clock afternoon, the

Bt. George's-place, Glasgow, on Wednesday, the 19th day of November, 1879, at Two o'clock atternoon, the

ESTATE OF RANKINESTON,
In the Parish of COYLTON, and County of AYR, lately occupied by ROBERT SALMOND, within 12 miles of Ayr and 4 miles of Drongan Station, on the Glasgow and South-Western Railway. The lands extend to 1574 acres, whereof 1260 are sound hill pasture, and 300 low ground, of which the greater part is arable. The remainder of the estate is made up of roads and plantations.

The MANSION HOUSE, to which there is attached a STABLE and COACH-HOUSE, with a well stocked GARDEN and VINERY, contains DINING ROOM, DRAWING ROOM, FOUR BED ROOMS, BATH ROOM, PANTRY, KITCHEN, and usual servants' accommodation. The FARM STEADING, which adjoins the Mansion House, is commodious and in good order.

The LANDS have been for some years in the possession of the proprietor, and immediate entry can be given. The SHEEP STOCK, consisting of 900 Blackfaced Ewes and 230 Lambs (which is much below what the place can carry), can be delivered to the purchaser at a valuation.

The MINERALS, which consist chiefly of a very valuable SEAM OF BLACK-BAND IRONSTONE, from 18 to 30 in. thick, extending under about half the Estate, are let to Messrs. Merry and Cuninghame.

William M'Clure, Overseer, Rankineston, Patna, will point out the boundaries. For further particulars, apply to KERR, Andersons, Mule, and Main, C.A., 149, West George-street, Glasgow; or to M'GRIGOR, DONALD, and Co., Writers, 172, St. Vincent-street, Glasgow; who have the Titles and Articles of Roup.

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The coal is of high repute in the London and Southern Markets, and the plant is powerful and efficient, and included in the Lessor's interest, and is capable of raising a minimum of 4000 tons of coal per week. There is ample siding accompation in connection with the Midland Railway Company's Main Line to London. The Advertiser would be prepared to CO-OPERATE with the PURCHASER is WORKING the COLLIERY, finding his proportion of Capital for such purposes. For particulars, apply to Messrs. J. and P. Hisson, Civil and Mining Engineers, 13, Crewn Buildings, Beoth Street, Manchester.

SOUTH ROMAN GRAVELS MINES,

IN LIQUIDATION.

TO R SALE, A BARGAIN, a highly finished 22-in. ROTARY BEAM PUMPING and WINDING ENGINE, with link motion, 4 ft. stroke in cylinder, metallic piston, perpendicular pipes, weighposts, working and nozzle gear, all fitted bright, including cast-iron casings for top and bottom nozzles, with bright covers, wrought-iron sweep rod, cast crank, 8-in. wrought-iron shaft, with thy-wheel 14 ft. diameter, 8 in. wrought-iron drum shaft, with two 9 ft. centres and 6 ft. pumping wheel. The engine was made by Messra. William's Perran Foundry Company, Cornwall, and is in excellent condition, and equal to new in every respect.

and equal to new in every respect.

To be seen on application to Capt. Powning, on the Mine (four miles from Minsterley, Salop).

For terms, apply to the Liquidator, 18, Austinfriars, London, E.C.

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POR SALE, a NEW 70 inch cylinder CORNISH BEAM PUMPING ENGINE, 10 ft. stroke in oylinder and 9 ft. in the shaft, with steam case, metallis piston, and wrought gudgeon. The false cover, perpendicular pipes, weigh posts, working and nozale gear all fitted bright. A strong substantial well made engine, complete, including cast-iron easings for top and bottom nozales with bright covers, holding down bolts and wrought-iron eaps and bolts for esnnection to main rod.

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On Land the property of Colonel Buller and others.

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Captain JOHN NICHOLLS, Manager of Violet Seton Mine, &c., and formerly Manager of Prosper United and other mines. AUDITOR

A Public Accountant, to be appointed at a meeting of shareholders, which will be held within a month.

BANKERS CORNISH BANK (Limited), Redruth, Truro, Falmouth, Penryn, and Helston,

CORNISH BANK (Limited), Redruth, Truro, Falmouth, Penrys, and Helston,.

This company is formed to work a piece of virgin ground (lying exactly to the east of and adjoining the Carn Brea Mines), through the entire length of which run the main trunk lodes of the district. It is intended to erect suitable machinery for pumping, with a rotary engine and air compressor for purposes of winding, boring, &c., to drive a cross-cut through the various lodes, of which there are at least nine that have been found productive to the west, and many also very rich to the east in Pedn-an-drea, Old Treskerby, &c.

It is intended, however, in the first instance to confine attention to those lodes which have paid such enormous profits, both shallow and in depth, in Dolcoath, Cook's Kitchen, Tincroft, and Carn Brea.

It is believed there is no such piece of unwrought ground to be had in Conwall. The immense cross-course running from Buller to Old Tolgus (and in connection with which these mines, respectively to the south and north of Wheal Union, turned out such masses of mineral) intersects all the lodes in the sett.

The union of granite and killas, or clay-slate, is also in the ground comprised in this grant.

From the present low price of machinery and materials, this is an exceptionally favourable time for starting such an undertaking. There is a certain prospect of a good rise in value of both copper and tin.

This first call of \$5000 will erect all the necessary machinery, and carry on the mine for twelve months, after which it is confidently believed a similar amount, to be raised by calls not exceeding 5s. per share, at intervals of not less than three months, will open a lasting and profitable mine.

There will be no other call than the first required until the machinery is erected. There is very little doubt that before this time shares will command a very substantial premium.

This company being started for the purpose of legitimate mining, there will be no promotion money or free shares. A stipulated sum of £500 is to

It is proposed to CLOSE THE LIST SHORTLY, and immediately after the allotment the first general meeting of shareholders will be held, of which due notice will be given.

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FALMOUTH, SILVEB MEDAL, 1867.

A DIPLOMA-HIGHEST OF ALL AWARDS-given by the Geographical Congress, Paris, 1875-M. Favre, Contractor, having exhibited the McKean Drill alone as the Model Boring Machine for the St. GOTHARD TUNNEL.

SILVER MEDAL of the Highland and West of Scotland Agricultural Society, 1875-HIGHEST AWARD.

At the south end of the St. Gothard Tunnel, where

Are exclusively used, the advance made during eight consecutive weeks, ending February 7, was 24-90, 27-60, 24-80, 26-10, 28-30, 27-10, 28-40, 28-70 metres. Total advance of south heading during January was 121'30 metres, or 133 yards.

In a series of comparative trials made at the St. Gothard Tunnel, the McKean Rock Drill continued to work until the pressure was reduced to one-half atmosphere (71 lbs.), showing almost the entire motive force to be available for the blow against the rock—a result of itself indicating many advantages.

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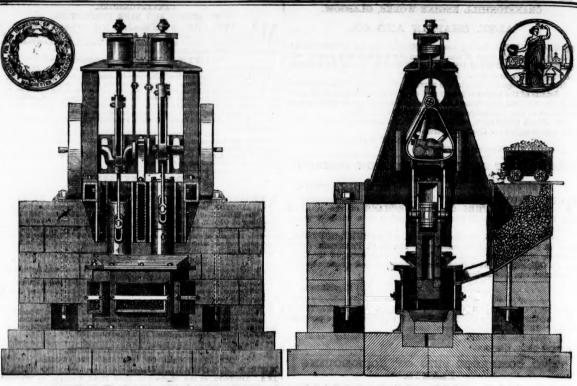
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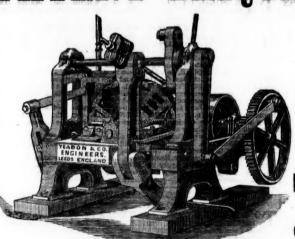
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(Signed)

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Messrs. Yeadon and Co.

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THE MINING SHARE LIST.

BRITISI	I DI	VIDEND	MINES.		
Shares. 10000 Caron, i, Cardigan* 1000 Carn Brea, c, t, Illogan's	2 0 56 7	0 2½ 6 55	54 56308	4 0 0 2 0 0 1 0	0Oct. 1878 0Feb. 1874
10240 Devon Gt. Consols, c, a, Tavistock*† 4296 Dolcoath, c, t, Camborne	10 14	10 55	54 56114	1 3 0 10	0Oct. 1879
6400 East Pool, t, c, Illogan 40000 Glasg, Car., c* (30000sh. £1 pd., 1000 8500 Gorsedd and Merllyn Con., t, Flint. 15000 Great Laxey, t, Isle of Man* 6400 Green Hurth, t, Durham* 20000 Grog winion, t, Cardigan*	2 10 4 0 0 6	0 2½ 0 18½ 0 5	1% 2% 0 18 19 25 5 2	3 10 0 0 5 0 0 5 0 0 0 5 5 0 0 3	0Oct. 1879 6Aug 1878 0Aug. 1877 0Oct. 1879 0Aug. 1879 10Aug. 1878
2800 Isle of Man, l, Isle of Man*† 20000 Leadhills,* l, Lanarkshire 400 Lisburne,* l, Cardiganshire	6 0	0 334	33/4 4 0 1		0 Feb. 1879 0 Mar. 1878 0 Mar. 1879
10000 Mellanear Copper, Hayle*	2 0		4¼ 4¾ 0 1 11 13 68	2 0 0 2 5 2 0 2 7 6 0 2	0Nov. 1879 0Nov. 1879 6Jan. 1878
888 North Busy, t, c, Chacewater 11829 North Hendre, l, Wales 8063 Ditto	2 10	0 6 0 2	3	0 0 0 5 2 6 0 5 4 0 0 2	0Sept. 1879 0Sept. 1879
10000 Pant-y-Mwyn, <i>l</i> , Mold (8794 sh. iss) 6000 Pennant, <i>l</i> , bar, North Wales* 18000 Prince Patrick, * s- <i>l</i> , Holywell 12000 Ditto, pref. (8000 sh. issued)	5 0	0 5 0 0	45 01	3 0 0 2 0 0 0 5 5 0 0 0 1 6 0 0	0Aug. 1878 0Mar. 1878 6July 1879 6July 1879
10000 Red Rock,* <i>l</i> , Cardigan	7 10	0 11½ 0 11½	1 1½ 0 11 11½ 8	4 0 0 2 5 0 0 5	0Jan. 1878 0May 1879
512 South Caradon, c, St. Cleer 6123 South Condurrow, t, c, Camborne† 4500 South Wheal Frances, t, Illogan†	1 5 6 5 7 12	6 151	50 55744 1 13½ 14½ 5 1 11½ 11¾ 38 1	7 0 0 10	0Aug. 1879 0Aug. 1879 0Aug. 1879
12000 Tankerville, <i>l</i> , Salop*			5½ 5½ 4 : 15½ 16½ 50		0Jan. 1877 0May 1877
15000 Van, l, Llanidloes*	17 5 95 10 51 0	0 5 0 28 0 55	41/4 5 55 1	0 0 1 0	0July 1879 0Feb. 1878 0Jan. 1879 0Apr. 1878
1024 Wheal Eliza Consols, t, St. Austell 3000 Wheal Peevor, t, Redruth	18 0	0	27 1		0Oct. 1879

FOREIGN DIVIDEND MINES.

20000	Alamillos, l, Spain*†	1	7	b	2	1% 2	***	1	3	6	0	2	6Oct. 0May 0Aug.	1878 1876 1879
20000 35000 10000	Cape Copper Mining,*† South Africa Cesena Sulph. Co., Romagna, Italy* Copiapo, c, Chili* (£20 shares)	7 10 16	0 0 15	0 0	32	30 32	***	35 0 7	17 19 11	6 0 5	000	1 3	0Sept. 0Aug. 0May	1879 1879 1877
10000	Eberhardt and Aurora, s , Nevada*† English and Australian,† c , S. Aust.	2	10	0	134	1% 1%	***	2	17	9	0	1	0Mar.	1879
55000	Fortuna, l, Spain*† Frontino & Bolivia, g, New Gran.*†	2	0	0	258	21/2 21/4		0	3	6	0	1	0Feb.	1879 1879
15000	Linares, 1, Spain*†	3	0	0	514	43/4 51/4		17	14	10	0	2	0Sept.	1879
10000	Pontgibaud, s-l, France† Port Phillip, g, Clunes*†(£2 shares)	20 1	0	0	21 5/8	19 21 36 56		27 1	6	9	00	7	6June 0Mar,	
54000	Richmond Consol., s, Nevada*†	5	0	0	934	9 91/2 xd	l	7	16	6	0	7	6Nov.	1879
120000 20000 22500 40625 £253000	Sierra Buttes, g, California*† Ditto, Plumas Eureka St. John del Rey*†(£5 Stock and mu	1 0 2 2 alti	0 10 0 0 ples	0 0 0 deal	2½ 1½ 2 3 t in)	21/8 23/8 1 11/4 13/4 2 23/4 3 270 280		2 2 1/2	15 0 7 p.e	p. ce p. ce 6 0	ent 0 0 ha	1 3 lf-y	May May 6Apr. 0Oct. ear, June	1879 1879 1879 1879 1879
	Victoria* (London), g, Australia													1879
2100	W. Prussian (5500 pref. sh. £10 pd.)	10	0	0	101/2	10 101/2		1	14	0	0	4	0Oct.	1879

§ Have made calls since last dividend was paid.

NON-DIVIDEND BRITIS	P	aid	INE	
3560 Aberllyn,* l, bl, Carnarvon	10	0	0	st wk. Clos pr. 11 10 11 56 16 56 34 16 34 176 1 1%
2000 Assheton, I, Carnarvonshire*	5	0	0	36 36 36
1583 Bedford Unit., * c, Tavis [£1 liab.) 0000 Bettws-y-Ooed. * l (20000 sh. issued)	0	4	U	11/2 1 11/2
8000 Blaen Caelan. * I. Cardigan	3	ő	0	178 1 178
3939 Blue Hills, t, c, St. Agnes	4	6	6	34 34 34
0000 Bodidris,* l, bl, Denbighshire	1	0	U	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
200 Botallack, t, c, St. Just]	126	5	0	55 80 100
256 Browngelly c. St. Neot	0	10	0	2 1½ 12 1¼ 1 1¼ 1¼1½ 1¾ 2 2 2¾
0000 Bwich United.* l (£1 sh.) Cardigan	Ö	12	6	134114 134
0000 Cambrian, * s-l, c, Cardiganshire	2	0	0	2 2 234
0000 Cen. Foxdale, l, I. of Man* (£2 sh.)	1	5	0	
5000 Coed Mawr Pool,* l. Carnaryon	1 2	0	0	11/4 1 11/4
7500 Combellack,* t. Wendron	2	ő	0	
8000 Combmartin, s-l, North Devon	0	8	0	4 6 1/4 7
2450 Cook's Kitchen, t, Illogants	27	4	9	4 61/4 7
6400 Crook Burn # / Cumberland	9	0	0	51/8 5 51/8
4000 Crosswood Mining Lands, l*	0	5	0	1½ 1½ 2 2½ 2 2¼
5000 Cwm Brwyno,* 1, Cardigan	2	0	0	21/4 2 21/4
2450 Cook's Kitchen, t, Illogan† 5000 Cornw. Great Cons., t, c, Callington, 8400 Crook Burn,* l, Cumberland. 4000 Crosswood Mining Lands, t* 5000 Cwm Brwyno,* l, Cardigan	1	0	U	
1250 D'Eresby Consols, l, bl, Carnarvon	10	0	0	6 4 6 30 25 35
0000 Denbighshire Consolidated,* l	3	0	0	30 25 35
2000 Derwent,* l, Durham	4	0	0	1414 14
0000 Dubby Syke, l, Durham*	0	15	U	6s 6s.
5000 East Black Craig, t, Scotland	3	0	0	21/ 2 21/
1000 East Chiverton, L. Perranzabuloe	9	10	3	21/2 3 374
3000 East Craven Moor,* l, Pateley Bdg.	10	0	U	2½3 3½ 2½1¾ 2½ 98 9
2000 East Crebor, c, Tavistock	0	1	U	114114 11/2
300 East Darren, t, Cardiganshire	32	0	0	11/ 11/ 11/
6000 East Goginan I Cardigan	1 2	0	0	11/211/4 11/2
0000 East Longstone,* s-l, Lezant	ī	Ö	0	11/8 1 11/6
1000 East Roman Gravels,* I, Salop	0	10	0	7/8 3/4 3/8
9000 Ditto, 6 per cent. pref. (fully pd.).	5	0	U	
1114 East Wheal Lovell, t. Helston	10	8	6	23/ 21/ 23/
5000 Florence,* s-l, bl, St. Ive	5	0	0	2 2½ 3 2½ 2½ 2½ 5 5
Denbighshire Consolidated, * I	2	0	0	234 3 31/2
3950 Gawton, c, Tavistock	4	9	6	14 1/4 1/4
1000 Glenroy,* s-l, Isle of Man	4	5	U	1/4 1/8 1/4 1/8 3/8 5/8
0000 Goreu,* s-l, Carmarthen	1	0	0	11/ 1 11/
0000 Gt. E. Foxdale, l, I. of Man (£1 sh.)	ō	18	0	11/2 1 11/2
2000 Great Holway, * 1, Flintshire	5	0	0	5 4½ 5 36 ½ 36 1½ 1 1½ 1½1½ 1½ 4½ 4½ 5
5000 Great Wh. Eleanor, t, North Bovey	1	17	6	38 34 38
0000 Griffin, s-l, Carnarvon	5	5	0	11/4 1 11/4
0000 Gwern-v-Mynydd.* s-l. Flintshire	5	0	0	414 414 5
0000 Harehope Gill, * l, Durham (£1 sh.)	0	5	0	
1200 Hartington Moor, * carb. l, Derby	1	1	0	2 1½ 2 is. 6d 1s. 6d.
6400 Harwood,* 1, Durham	0	15	0	s. 6d 1s. 6d.
ornim, s-t, carnarvou group de	0	6	0	2½2½ 2½ ¾ ¾ ½ ³/16 ⅓ ³/16
	2	12	6	3/16 1/2 3/10
000 Ladywell,* l, Salop	2	10	0	3/16 1/3 3/16 1 3/4 1 5/8 3/4 5/8 31/8 2/8 31/8
2000 Ditto, 10 per cent. pref., £1 each.	0	10	0	3/8 3/8 5/8
500 Levent c t St Just	10	10	0	31/8 2 /8 31/8
000 Livingstone Consols, t. St. Agnes	0	10	6	1/2 1/2
000 Llandegla,* l, Llanarmon	1	0	0	1 1 1½ 6½ 6 6½
5000 Llansawel,* l, Wales	5	0	0	61/2 6 61/2
0000 Lomax, s-l, Perranzabuloe	1	0	U	
0000 Llanrwst.* L. Carnaryon	0	16	0	114 114 134
500 Ditto, 10 per cent. pref	2	ő	0	1½ 1 1½ 1½1½ 1¾ 2½2½ 2¾
000 Marke Valley, c, Linkinhorne; 800 Mawston, l, South Wales 000 Medlyn Moor, t, Wendron 900 Melyndwr, l, Cardigan*	5	3	6	11/211/4 11/6
800 Mawston,* l, South Wales	1	0	U	2 11/2 2
3000 Medlyn Moor, t, Wendron	3		10	
1900 Melyndwr, l, Cardigan*	10	0	U	12 " 10 10
1000 Monydd Gorddu, l, Cardigan* (Red)	5	0	0	13 12 13 2 11/4 2
2000 Morfa Du, z, g, s, Anglesea*	1	ő	0	2 11/2 2 7/8 3/4 7/8
5000 Nant-y-Ronen, s-l, Cardigan*	1	0	0	
4678 New Bronfloyd, * I, Cardig. (£5 sh.)	3	16	0	11/
1900 Melyndwr, t, Cardigan*	5	0	0	11/4 1 11/4
000 New Dolcoath, t, c, Camborne*	3	0	0	11/111/1 11/1
		-		-/4 **** 78 474

	NON-DIVIDEND MINES	-0	on	tinued.
Share	6	Par		Last wk. Clos pr.
10000	N. D'Eresby Mount.,* l, bl, Carnary. North Levant, t, c, St. Just I	1	0	0 154 1 114
50000	North Molton c mn . Dovon	13	6	0 4 3 5
6000	North Penstruthal.*t. c. Gwennan?	ô	10	0 1 1
2936	North Molton, c, mn, t, Devon North Penstruthal,*t, c, Gwennap! North Treskerby, c, St. Agnes	8	17	10 74 1
12000	North Treskerby, c, 8t. Agnes Pandora,* l, Oarnarvon. Park Valley,* s-l, North Devon Parracombe, s-l, Devon Parracombe, s-l, Devon Parracombe, s-l, Devon Parracombe, s-l, Devon Ditto (also 7500 sh. not issued) Pen-yr-Orsedd,* l, Flintshire Penhalls, t, 8t. Agnes I. Perran Consols, s-l, Perranzabuloe. Phemix, s. W. Phemix, t, c, Link, s. Picton,* s-l, Holywell, fully paid Plympton Mining and Arsenio*. Plympton Mining and Arsenio*. Piyntimmon, l, Ilanidloes*. Port Nigel,* s-l, Carnarvonshire. Prince of Wales, c, Calstock I. Rhydalun,* l, Mold Rookhope, l, Durham So. Cambrian,* l, Cardiganshire	2	0	
6000	Park Valley,* s-l, North Devon	0	4	0 1/ 1/ 1/
6000	Parracombe, s-l, Devon	0	5	0
45000 7500	Pataley Bridge / Vorkshire	1	0	
15000	Ditto (also 7500 sh. not issued)	ô	17	0 34 54 34
12000	Pen-yr-Orsedd,* l, Flintshire	1	0	0 1% 1 14
5000	Penhalls, t, St. Agnes [3	17	6 14 16 1/4
15000 12000	Phonix & W Phonix t c Link 4	5	10	0
7000	Picton, * s-l. Holywell, fully paid	ĭ	0	3 36 36
6000	Plympton Mining and Arsenic*	1	0	0 316 31/ 21/
12000	Plynlimmon, l, Llanidloes*	2	0	U 08 49 60
10000	Port Nigel, * s-l, Carnaryonshire	5	0	0 16 16 16
2000 5182	Prince of Wales, c. Calstock!	2	0	0
5000	Rhydalun,* 1, Mold	10	0	0 —
15000	Rookhope, l, Durham	1	10	U 14 1/2 1/2
15000	So. Cambrian, * 1, Cardiganshire	1	0	0 134144 134
6000	South Cwmystwith, I, Cardigan	2	0	0 38 34 36
30000	South Darren, I, Cardigan*	1	10	0 234 21/2 3
512	South Dolcoath, c. t. Redruth	12	5	0 178158 176
18000	South Roman Gravels, I*	1	10	0 3s 1s. 3e
6000	South Roskear, t, c, Camborne	8	5	D
6000	South Tolcarne, t, c, Camborne	2	8	
40000 2043	South Wheal Crofty c. Illogan	15	17	0 1½1½ 1¾ 0 7½ 7 7½
6000	St. Lawrence, Amal., I, Flintshire*.	2	0	
10000	St. Patrick, I, Halkin, Holywell*	1	0	U 1 % 1
30000	Talybont,* s-l, Cardiganshire	1	0	U
40000 6400	Tamar, 8-4, Bearaiston*	1	0	0 1¾1½ 1¾ 0 8s 8s.
10000	Temple, I. Cardigan*	î	Ö	0 8s 8s. 0 —
5000	Rhydalun," t, Mold Rookhope, t, Durham So. Cambrian," t, Cardiganshire South Cwmystwith, t, Cardigan. South Darren, t, Cardigan. South Darren, t, Cardigan. South Delocath, c, t, Redruth South Bolcoath, c, t, Redruth South Roman Gravels, t's South Wheal Crebors, c, Tavistock. South Wheal Crebors, c, Tavistock. South Wheal Crebors, t, Flintshire's St. Lawrence, Amal., t, Flintshire's St. Patrick, t, Halkin, Holywell' Talybort, s-t, Cardiganshire Tamar, s-t, Bearalston' Teesdale, s', Durham (prf.) Temple, t, Cardigan' Tretleigh Wood, t, Redruth Trethellan, s-t, Oranstock' Trunc, t, Nerquis, Flintshire. Tyn-y-Fron, t, Cardigan. Ditto Ditto Van Cons, and Glyn, st, Liandloes. Van Cons, and Glyn, st, Liandloes.	6	1	0
12000	Trethellan, s-l, Cranstock*	2	0	0
640	Truro,* 1, Nerquis, Flintshire	10	0	
5000	Ditto	0	7	0 1½ 1 1½ 6 ½ ¾ ½
10000	Van Cons. and Glyn, * l, Llanidloes.	2	0	0 56 56 16
1000	Van Cons. and Glyn,* l, Llanidloes. Vaughan,* l, Cardiganshire Victor,* l, Flintshire (£1 share)	10	0	0 —
18000	Victor,* l, Flintshire (£1 share)	0	5	0
12000	West Assheton, l, Carnarvon West Basset, c, Illogan†1 West Combmartin, s-l, No. Devon	1	0	0 1¼ 2 2½ 4 11½10½11½
6000 5500	West Combination at No Devon	7	0	4 111/2101/211/2
7000	Ditto	ô	2	6 =
3000	W. Craven Moor, I, Pateley Brdge*	10	0	0 8 78
12000	West Goginan, * Cardiganshire	2	0	U 29 5/9 5/6
12000	West Holway, I, Flintshire	1	0 2	0 11/2 1 1/2
3000	West Mary Ann. J. Menheniot	ő	12	6 =
199	Ditto W. Craven Moor, I, Pateley Brdge* West Goginan,* Cardiganshire West Holway, I, Flintshire. West Kitty, I, St. Agnes West Mary Ann, I, Menheniot West Mary Ann, I, Menheniot Westminster Bog Issa, Llanarmon.	5	0	0
20000	W. of Englad Spat. Iron & Ld. Smlt.	5	0	0 5% 5 516
20000	West Poldice St. Day!	11	0	0 234214 234
1000	Wt. Roskear, t, s-l, bl, c, Camborne.	5	10	0
2048	West Wheal Frances, t, Illogani	29	6	3 12 11 12
3000	West Wheal Peevor, t, Redruth	1	5	0 5 412 5
12000	West Wye Valley, * 1, Montgomery.	3	0	0 1 1/4 1
6144	Wheal Basset, c. Illogan!	33	10	0 1 ½ 1 0 6 5¼ 6 6 3¾ 3 3½
6000	Wheal Coates, t, St. Agnes	2	ő	0
2585	W. Comford, & No. Tres.,c, Gwennap	1	17	0 3 234 3
6000	Wheal Crebor, c, Tavistock	4	8	
5179	Wheal Jane & Keat	9	10	0 536 5 536
4295	Wheal Kitty, t, St. Agnes?	5	13	10 5½ 5 5½ 6 3¼ 2¾ 3
80	Wheal Owles, t, St. Just 1	178	15	
12000	Wheal Russell, c, Tavistock	2	1	b —
1000	Wheal Uny t c Redruth	16	10	0 16 15 16
2324	White Cliff. * I, Llanrwst	5	0	0 211/2 11/4
10000	Wye Valley, I, Montgomery*	3	0	0 1 1/4 1
	West anay Ann., Mennemote Westminster Bog Issa, Llanarmon. W. of Englad Spat. Iron & Ld. Smit. West Pateley Bridge, "t, Yorkshire. West Poldice, St. Day! When the Person, t, Bellogan! West Wheal Frances, t, Illogan! West Wheal Person, t, Redruth West Wye Valley, "t, Montgomery. Wheal Agar, c, Illogan! Wheal Basset, c, Illogan! Wheal Cates, t, St. Agnes W. Comford, & No. Tres., c, Gwennap Wheal Crebor, c, Tavistock Wheal Cates, t, St. Agnes! Wheal Jane, t, Kea! Wheal Sisters, t, St. Just! Wheal Owles, t, St. Just! Wheal Sisters, t, Lelant Wheal Cliff, "t, Llanrwst Wheal Cliff," t, Llanrwst Wye Valley, t, Montgomery"		_	

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Shares, Pand, Clos. pr.	NON-DIVIDEND FO	DREIGN				mat
30000 Blue Tent, Ayd, California	Shares,			_		. pr.
49935 Chontales, g, s, Nicaragua** 75000 Colombian Hydraulic, g, Colombia 1 0 0 4 1/8 100000 Den Pedro North del Rey* † 1 0 0 4/9 20000 English Australian, g, Victoria* 1 0 0 4/9 20000 English Australian, g, Victoria* 1 0 0 4/9 100000 Exchequer, g, s, California* 1 0 0 4/9 100000 Hornachos, * s-l, Spain 1 0 0 11 10000 Hornachos, * s-l, Spain 1 0 0 11 12000 Hultafali, * l, b, Orebro, Sweden 5 0 0 12 12000 Hultafali, * l, b, Orebro, Sweden 5 0 0 12 12000 Hunter Consolidated, s-l, Utah 1 0 0 17 1500 Isabelle, g, s, California* 1 0 0 17 100000 I.X.L., g, s, California* 1 0 0 10 100000 Last Chance, * s, Utah 5 0 0 4/6 5/6 20000 Last Chance, * s, Utah 5 0 0 4/6 5/6 20000 London and California, g**[1 2 0 0 4/6 5/6 20000 Missouri, l, pref (£10 sh.) 7 0 0 775/2 40000 New Quebrada, s, Venezuela 5 0 0 3/4 3/4 10000 New Quebrada, s, Venezuela 5 0 0 3/4 3/4 10000 Nouv. Monde, g, Venez, (en com.) 1 0 0 4/1 3000 Oregon, g, Oregon, U.S. (pref, sh.) 4 0 0 5/00 20000 Pacarville, g, q, Galifornia 2 0 0 3/4 4/4 20000 Ravensoliff, g, N. Zind; c, S, Aust. 0 5 0 18/2 20000 Placerville, g, q, Galifornia 2 0 0 2/6 2/6 20000 Placerville, g, q, California 5 0 0 19 19/2 25000 Ditto 7 D. c. Mort. Bonds. 20 0 0 19 19/2 25000 Ditto 5 shares 1 0 0 19 19/2 25000 Ditto 10 per cent. deb. conv.). 50 0 25/2 3/4 43174 United Mexican, * 1; s, Mexico 29 2 6 2/4 3 50000 Western Andes, s, Colombia 5 0 0 15/00 Western Andes, s, Colombia 5 0 0 15/00 0	30000 Blue Tent, hyd, California 10000 Buena Ventura, 4, Spain 15000 Canada, g, Canada 34433 Cedar Creek, g, California	(£2 sh.).	0 1	0 15 0 0	0 1½ 0 01½ 0	
20000 English Australian, g, Victoria* 1 0 0 4 36 100000 Fechequer, g, s, California* 1 0 0 4 36 100000 Frontenso.* l, Ontario, Canada	49935 Chontales, g, s, Nicaragua 75000 Colombian Hydraulic, g, 6 85000 Colorado United, s-l Colo	Colombia rado*†‡	1	0	0 34	
10000 Hornachos,* s-l, Spain 10	20000 English Australian, g, Vio 100000 Exchequer, g, s, Californi 100000 Frontenac, l, Ontario, Ca	etoria* a*† anada	1	0	0 34	
The first continue of the co	10000 Hornachos, * s-l, Spain 12000 Hultafall, * l, bl, Orebro, £ 12000 Hunter Consolidated, s-l, 7500 Isabelle, g, s, * California 100000 I.X.L., g, s, California 50000 Javall, g, Nicaragua	Weden . 1 Utah 1 (£20 sh.).	5 0 5 1	0000	0 0 0 0 03/16	3/10
3000 Oregon, q, Oregon, U.S. (pref. sh.) 4 0 0 50000 Penduclilo, c, Chili**(t28000 Deb.) 4 0 0 3/4 4/4 80000 Pestarena United, q, Italy** 1 3 0 0 ½ ½ 25000 Pitanqui, q, Brasii (in. 6002 Elp d) 0 8 6 2 ½ 40000 Ravensoliff, q, N. Zind; c, S. Aust. 0 5 0 1898320 Ribo Tinto, c, Huelva, Spain Stock 81 83 44950 Ditto shares 10 0 0 91 19½ 225000 Ditto shares 10 0 0 0 91 19½ 225000 Rossa Grande, q, Brasii**(£1 sh.) 1 0 0 2 0 25300 Ruby and Dunderberg, g, Nevada* 10 0 0 2 0	65000 London and California, g* 7587 Lusitanian, Portugal*† (£ 9000 Missouri, l. pref (£10 sh.)	* 11 25 sh.)	2 4 7 1 5	015	0 7 0 7 0 31/4	7½ 7½ 3¾
1898320 Rio Tinto,* c, Huelva, Spain	3000 Oregon, q, Oregon, U.S. (50000 Panulcillo, c, Ohili*†(£80 80000 Pestarena United, q, Ital; 25000 Pitanqui,*q, Brazil (in. 60	pref. sh.) 000 Deb.) y*† 000 £1 pd)	4 3 0	0 0 8	037/s 0 1/4	1/2
10000 Silver Plume, s, Colorado	1898320 Rio Tinto,* c, Huelva, Sr 4950 Ditto 7 p. c. Mort. 225000 Ditto shares 100000 Rossa Grande, g, Brazil* 25300 Ruby and Dunderberg, g,	Bonds 2 	St. 20 10 1	0 0 0 0	019 0 63 0	191/2
	10000 Silver Plume, s, Colorado 20000 Tolima, g, s, Colombia 43174 United Mexican, fl s, Me 50000 Virneberg, c, Rheinbreith 15000 Western Andes, s, Colomi 75000 Yorke Peninsula, c, So. A	xico 2 o., Ger.* bia	1 5 29 2 5 1	002000	0 4 6 2 0 0	5/16
					,	

			1
-	*		1
GAS COMPANIES.			
	91.0	ea	1
Issue. Shares. 5000 20Bahia [L]	Pu.	Clos. pr.	1
5000 20Bahia [L]	all1	3 14 14 xd	ł
40000 5Bombay [L]	all	6% 6%	i
10000 5 Ditto, New [L]	4	1/2 1 pm	1
10000 5 Ditto, New [L] 297008tkBrentford Consolidated	100	148 153	1
14000 20British	all	34 36	1
\$50000StkCommercial	100	180 182	
20000 20Continental Union [L]	all	181/ 191/	1
20000 20 Do. do. New, 1869, 1872 .	14	2 1 dia	1
10000 20 Do. do. 7 per ct. Preference	110 01	221/ 241/	1
92408 10 European II.	all	171/ 191/	1
23406 10European [L]			1
4094850 .8tk Gaslight and Coke, A, Ord			1
50000 10 Ditto, 4th issue	all	17 18	1
50000 10 Ditto, 5th issue	all	16 17	1
284200Stk Do, 4 per cent. Deb. Stock	100	99 101	1
5000 10Hong Kong and China	all!	14%15% xd	1
2800000 .8tk Imperial Continental	100 1	18914 19014	1
386500StkLondon	100	172 175	1
12000 5 Malta & Mediterranean [L] .	all	2 214	1
100000 Metrop. of Melbourne 6 p.c. I	hah	102 104	1
25000 20 Monte Video [L]	011	143/ 151/	1
			1
10000 5Ottoman [L]	all	2 214	1
30000 5Oriental [L]	all	6% 7%	1
27000 20Phœnix	all	36 37	1
300000Stk Do., New Max. div. 7½ p.c	t. 80	110 114	1
37500 20Rio de Janeiro [L]	all	261/2 271/2	1
\$00000 Stk South Metropolitan	100	195 198	1

Sho	INSURANCE COMPANIES.
100 100 30 50 20 100 100 25 25 20	Alliance British and Foreign 11 28 29 Disto, Marine 20 27 29 Anglo-French Fire [L] 2 British and Foreign Marine [L] 4 13 13/4pm Commercial Union 5 133/414/4pm Eagle 5 5/4 6 Globe Marine [L] 11 2½ 1½ did Imperial Life 10 21 23 Indemnity Marine 10 21 23 Indemnity Marine 21 50 69 69 8 L'pou'& Lond, Globe (£1 annty) 155/415/4pm London and Lancashire Fire 2½ 3 3½ pm London and Lancashire Fire 2½ 3 3½ pm London and Provincial Marine 2 24 34 pm London and Provincial Marine 2 2 24 34 pm
10 50 100	Marine 18 82 84 Merchants' Marine 2 1½ 1½ dis Merchants' Marine 2 5½ 5½ Maritime 2 5½ 5½ North British Mercantile 8½ 43 45 Northern 5 39 39½
10 10 5	Ocean Marine 5 2 3 pm Phomix Fire — 310 313 Queen 1 2½ 2½ 1 Railway Passengers 29s 7½ 8½ Rock Life ½ 8 8 3
10 20	Scottish Commercial 1 34s. 36s. Standard Marine 4 75/16 71/16
20	Thames and Mersey Marine [L]. 2 6½ 7 pm Union Marine, Liverpool [L] 5 8½ 8½ Universal Marine [L] 5 4½ 5½pm
	100 100 30 50 50 20 100 100 25 25 20 100 100 50 100 50 100 50 100 50 100 25 25 20 20 20 20 20 20 20 20 20 20 20 20 20

Shares.		I	2d.			Clos.	pr.
10 Birminghan	Wagon Co. [L]	£10	0		1436	145%	
10 Ditto 2n	d issue	4	0		11%		pm
10 Ditto pre	ef., 6 per cent	10	0		11	1136	*
20 British Wag	on Co. [L]	10	0	***	136	15%	pm
10 Gloucester [L]	10	0		934	10	-
10 Ditto 5tl	a issue	. 5	0			dis p	ar
10 Met. Rail. Ca	ar. & Wagon Co.[1 ef., 6 per cent	5	0		234		pm
5 Ditto pre	ef., 6 per cent	5	0				pm
10 Midland Ra	il. Car. & Wag. [I	1 10	0			1036	F
10 Ditto pre	f., 6 per cent	1	0	***		par	
20 North Centi	ral Wagon Co	20	0			_	
5 Rail. Car. [I	Oldbury	5	0	***	434	5	
5 Ditto pro	ef., 6 per cent	5	0	***		5	
			0			3/	pm
10 Vorkshire V	Vagon Co. [L]	10	0		47	63	pm

GAS COMPANIES.	20 Sheffield Wagon Co. [L] 15 0 44 54 pm
	20 Sheffield Wagon Co. [L] 15 0 14 14 pm 10 Yorkshire Wagon Co. [L] 10 0 14 14 pm
Issue, Shares. Pd, Clos. pr. 5000 20Bahia [L]	4 Pm
40000 5Bombay [L]all 6¼ 6¾	
10000 5 Ditto, New [L] 4 4. 1 pm	
29700StkBrentford Consolidated100 148 153	
14000 20British 34 36	FOREIGN AND MISCELLANEOUS STOCKS.
\$50000StkCommercial100 180 182	(Tasing miles
20000 20Continental Union [L] all 181/ 191/	Argentine, 1868, 6 per cent
20000 20 Do. do. New, 1869, 1872 14 2 1 dis	Bolivia, 6 per cent. Bond Com. Cert. 3812 3712
10000 20 Do. do. 7 per ct. Preference all 231/2 241/4	Brazinan, 1995, 5 per cent. 94 96
23406 10European [L] all 17½ 18½	Unilian, 1866, 7 per cent 91 94
4094850 .StkGaslight and Coke, A, Ord1001791/2 1801/4	Olty of Melbourne, 5 per cent., 1896-1907104 108
50000 10 Ditto, 4th issue all 17 18	City of Ottawa, 6 per cent. Sterling
50000 10 Ditto, 5th issue	City of Providence, 5 per cent. coupon bonds104 106 City of Quebec 6 p. cent. Con. Fnd. Stg. Loan.104 106
5000 10Hong Kong and China all14½15½ xd	City of Toronto, 6 p. ct. Stlng. Bnds, 1897-1904.109 111
	Egyptian Government pref
2800000.8tkImperial Continental	Ditto, United Debt Act 47
12000 5 Malta & Mediterranean [L] all 2 21/2	Ditto, 7 per cent. V.M.L.
100000 Metrop. of Melbourne 6 p.c. Deb 102 104	Ditto, 7 per cent. guaranteed 25
25000 20Monte Video [L] all 141/4 151/4	Ditto, K. Daira Sanieh 63 64
10000 5Ottoman [L] all 2 21/	Foreign and Colonial Gov. Trust, preferred 102 105
30000 5Oriental [L]	Ditto, 5 per cent., deferred
27000 20Phœnix	reruvian, 1870, 6 per cent. 14 1412
300000Stk Do., New Max. div. 71/2 p.ct. 80 110 114	Ditto, 10/2, 5 per cent
37500 20Rio de Janeiro [L]	Russian, 51/2 per cent. L. Mort.
\$00000\$tkSouth Metropolitan	Spanish, Quicksilver, Mort. 5 per cent 101 102
15000 10wurrey Consumers all 18 19	United States Mort, 6 per cent

Share:	IRON AND COAL COMP s. Company. Paid			ice.	
			2734	25	dis
15	Albion Steel and Wire Co. [L] 14	0	-	-	CLED
5	Alltami Colliery Co. [L] 5	0	1/2	21/2	At-
100	Ashbury Co. [L] 90 (0		54	dis
10	Bagnall, John, and Sons [L] 3 (Benhar Coal Co. [L]	0	111/	13/4	
10	Rilbao Iron Co (I.) 50	0	1834	1934	
50	Bilson & Crump Mdw Coll [L] 10	0		-	
50		0	81/2	20	pm
100	Brown, John, and Co. [L] 70	0		10	dis
3	Cakemore, Cseway, Grn. ord. sh. 3	0	334	35%	
3	Ditto (7½ per cent. pref.) 3	0	334	4	310
20	Cannock & Huntington Coal[L] 10	0	6½ 9½	9	dis
10	Central Swedish Iron &Stl.[L] 10	0	1	11/4	
5	Unapel House Colliery 5	0	11/4	134	
50	Charlton Iron Co. [L] 50 Chatterley Iron Co. [L] 50	0	7	8	
10	Unillington Iron Co. I.L 10	0	434	436	
10	Consett Iron Co. [L] 7 1	0	10	12	pm
50		7	45	44	pm
20	Darlington Iron Co. [L] 15	0	1111	111/2	dis
10	Davy Brothers [L] 22 1	0	4	31/2	dis
23	Ebbw Vale Co. [L] 20	0	6	61/6	
100		0	23/	41/4	
15		0	3¾	474	
50		0	736	7	dis
10	Llay Hall Coal, Iron, &c. [L]- 10	0		_	
50	Llynvi, Ogmore, & Tondu [L] 50	0		534	
10	Marbella Iron Ore Co. [L] 10	5		11/4	
10	Midland Iron Co. [L] 5	0		23/2	dis
10	Monkland Iron & Coal Co. [L] 10	0	198	15%	
		5		134	din
3	Nant-y-Glo & Blaina (8 p.c. prf.) 100 Nerbudda Coal and Iron [L]	0	2314	2334	dis
10	Newport Abercarn Coal Co. [L] 10	0	41/4	5	
10	Northmptn. Coal, Iron, &c. [L] 8	0		- 01/	31-
35		0			dis
100		0	13	12	dis
20	Patent Shaft and Axletree [L] 10	0	1	3/4	dig
20	Eng time at				di
		0		16	
100		0	18 35	181/9	
100	Sheepbridge Iron and Coal [L] 80	0	15	1436	dis
50	Silkstone & Dodw.Cl.& Iron [L] 45	0	. 39	37	die
100	Somorrostro Iron Co. [L] 50 Staveley Iron and Coal Co. [L] 60	0	99	23	pm
100		0			pm
50			111/8	10 %	
25	Ditto di to B 25	0	1934	20	
20	Ulverston Mining Co. [L] 16	0	14	10	dis
10	vancouver Coal [L] 6	0	3	3 2	dis
25	W.Cumberland Iron & Steel [L] 20	0			dis
	DIES.				
	-				

	D 23	- 0	***	10.24	6.0	
20	Ulverston Mining Co. [L] 16 Vancouver Coal [L] 6	0	***	14	10	6
100	Vickers, Sons, and Co. [L]100	0		3	2	ė
25	W.Cumberland Iron & Steel [L] 20	0	in-	8	73%	ć
					0	
	TELEGRAPH COMPA	AN	IE	s.		
Stk.	Anglo-American100	0		56	57	
10	Brazilian Submarine 10	0		734	736	
20	Direct United States Cable 20	0		103%		
	Eastern 10		***			
10	East, Exten. Austr. and China 10	o o	***	934	954	
10		0	***		85%	
	Indo-European 25			2234		
30	Mediterranean Extension 10	0		03/	314	
				274	1034	
CAL	Reuters 3	0	***	372		
DUK.	Submarine100	0			232	
10	West India and Panama 10			136	158	
20	Western and Brazilian 20	0	***	934	975	
\$1000	West. Union, 7 p.c. Mort. Bonds \$1	000	***	120	125	

TRAMWAYS.	
Issue, Shares, Pd. Clos.	pr.
40000 5Anglo-Argentine [L] all456	436
10000 10	6½ 11
3200 10Chester [L] all10 1	036
24000 10Dublin all13 1	314
14690 10 Edinburgh Street Tramways all 15 1	536
35000 10Glasgow Tramway & Omni. [L]. 9101/2	11
10000 10Hughes Loco, and Tram. works. all 8½ 7500 10Hull Street Tramways all12 1	9
7500 10Imperial [L] all 9	10
34000 10Liverpool Unit. Tram & Om. [L] all114 25000 10London [L]	136
60000 10North Metropolitan	11%
11947 10Provincial [L] all101/2	11
6000 10 Sheffield all .8½ 5000 10 Southampton all .10½ 6000 10 Sunderland [L] all .8½ 10000 10 Swansea all .8½	916
12000 10 Tramways of France [L]	10%
25000 10 Vale of Clyde 6 43/	5
7200 10Wolverhampton [L] all10	10%

	MISCELLANEOU	JS.				
25 10	Atlantic and Great Western Leased Lines, Rental Trust 100 Australian Agricultural 21 Brighton Aquarium [L] 10	10		86	74 88 7½	
Stk. 25	Cent. of New Jersey Con. Mort. 100 City of London Real Property 12	0	***	134	108	pm
16	Diamond Rock Boring 4 Fore Street Warehouse [L] 14 Foster, Porter, and Co. [L] 10	0		71/2	3¼ 8½ 16½	
17	Hudson's Bay Company 17	0	***	15	151/2	
8tk.	Illinois & St. Louis Brge, 1st Mt. 100 Ditto 2nd Mort., 7 per cent100 Imperial Credit [L]	0 0 10		105 63 75% 63%	107 66 7% 6%	
Stk.	Lehigh Val.Con.Mort', A,7p.c. 100 Milner's Safe [L] 10	0		736	1081/4	
25 Stk.	National Discount [L] 5 N. Cent. Rail Mort., 6 per cent. 10		***	10¾ 99	103/4	
Stk.	Pawson and Co. [L]	0000	***	116	51 117 112	ar
Stk.	Scottish Australian Invt. Co. 100 Ditto 6 per cent. pref100 Ditto New Ordinary 10	0	***		190 132 50	
5	Telegraph Const. & Maint. [L] 12 Ditto, 2nd Bonus, 3 per cent 5 Tharsis Sulphur & Copper Co 10		***		36 3 291/2	
Stk.	Union Pacific Land Gt., 1st Mt. 100 Union Pacific Ry., 1st Mort100	0		114	116 116	

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